

VIDHIGYA
INDIA



OPEN
MOCK ✓

EXPERIENCE **CLAT & AILET**
BEFORE D-DAY

AILET
AILET

CONTENTS OF QUESTION PAPER

Subject	Q.No.
English Language	1-5, 13-17, 25-29, 37-41, 49-53, 61-65, 73-77, 85-89, 97-101, 109-113
Logical Reasoning	6-12, 18-19, 20-24, 30-36, 42-48, 54-60, 66-72, 78-84, 90-96, 102-108, 114-120
Current Affairs including General Knowledge	121-150

— Celebrating **10 Years** of Success —

CLAT 2023



STATE RANK
6TH

TUSHAR SHARMA
2 years Vidhigya Offline Classroom Program Student
The Shishukunj International School, Indore

AIR 79

5TH AILET STATE RANK



STATE RANK
2ND

SAKSHAM AGRAWAL
1 year Vidhigya Offline Classroom Program Student
Sri Sathya Sai Vidya Vihar School, Indore

AIR 18

1ST AILET STATE RANK



STATE RANK
5TH

MRIDUL KOTHARI
2 years Vidhigya Offline Classroom Program Student
SICA School, Scheme 78, Indore

AIR 73

3RD AILET STATE RANK

Students Enrolled for Vidhigya Classroom Programme

**Vidhigya India Open Mock 8
CLAT 2024**

Question Paper with Answers & Explanations

AILET-06 (MOCK-2446) VIOM

***English & Logical Reasoning
Passage-I***

In the heart of the bustling metropolis, stood a colossal edifice in the process of construction: the Grand Atrium Tower. This architectural marvel was to be the city's pride, embodying its spirit of innovation and ambition. The project was helmed by three leading construction firms in the industry: ProBuild, QuickCon, and MasterMakers, each with a distinct expertise and an unparalleled reputation. ProBuild was recognized for its time efficiency. It had been documented that a task which typically took other companies 15 days, ProBuild accomplished in merely 10. Their efficiency stemmed from the intricate planning and excellent work management that broke down complex processes into more manageable units. QuickCon, on the other hand, prided itself on its high-quality output. While they usually took about 20% longer than ProBuild to complete a similar task, the precision and quality of their work were incomparable. Hence, in the time period of 12 days, QuickCon could build what ProBuild constructed in 10 days. Lastly, MasterMakers were the champions of innovation. Their work approach was markedly slower, needing 30 days to complete what ProBuild could in 10 days, but they incorporated the latest technology, ensuring that their constructions were ahead of their time. Their contribution was not quantified in days but in the value of the advancements they brought to the table. The Grand Atrium Tower's project was unique, combining the talents and expertise of all three companies. The project had an estimated completion time of 60 days, accounting for the various phases including conceptualizing, planning, constructing, and reviewing. The three companies decided to split the workload, planning to utilize their strengths to maximize efficiency.

Every third day, the teams from ProBuild and QuickCon collaborated, combining their speed and quality. Meanwhile, MasterMakers worked independently on their innovations. The latter's progress was slower, but the advancements they incorporated into the project were instrumental. Financial stakes were high. The total project was worth 3.2 million dollars, a fee paid by the city government. The allocation of this amount among the three companies was agreed to be proportionate to the amount of work performed. Each day of work had its own monetary value and additional remuneration was agreed upon for the incorporation of unique technology. The construction project, apart from being a monument of progress, was a fascinating representation of the complex dynamics of time, work, and cost. It underlined that time and work were not always linearly related and brought forth the concept of efficiency and the value of expertise. The Grand Atrium Tower project was not just about building a skyscraper, but it also became a live case study for business schools and management experts, providing insight into how different strengths can come together to create something extraordinary in the most efficient and effective manner possible.

Section: A – English

1. Which of the following is a metaphor based on the information provided in the passage?

- (a) The Grand Atrium Tower project being referred to as a live case study.
- (b) ProBuild accomplishing tasks faster than other companies.
- (c) The Grand Atrium Tower being a monument of progress.
- (d) MasterMakers' use of the latest technology in their construction.

2. Select the option that can be the most suitable concluding line to this text.

- (a) The Grand Atrium Tower, thus, stands tall, not just as a physical structure, but as an emblem of innovation, efficiency, and collaborative success.
- (b) The construction companies ended up earning a lot of money from the project.
- (c) The construction of the Grand Atrium Tower was an easy task for the three companies.
- (d) MasterMakers, ProBuild, and QuickCon went on to work on other projects separately.

3. Select the option that correctly completes the following analogy based on the information provided in the passage.

ProBuild : Time Efficiency :: _____ : _____

- (a) QuickCon : Quality Work (b) MasterMakers : Financial Success
 (c) QuickCon : Rapid Construction (d) MasterMakers : Time Efficiency

4. Replace the underlined word in the line, 'The project was helmed by three leading construction firms in the industry' with its correct meaning from the given options.

- (a) Directed (b) Owned
 (c) Financed (d) Criticized

5. Select the option that can be the most suitable introductory line to this text.

- (a) The Grand Atrium Tower was a skyscraper built in a small town.
 (b) This is a story about three construction firms: ProBuild, QuickCon, and MasterMakers.
 (c) The Grand Atrium Tower: An Ambitious Undertaking Pioneering Innovation, Quality, and Efficiency.
 (d) The construction industry is full of challenges and competition.

Section: B – Logical Reasoning

6. If ProBuild and QuickCon work together on the Grand Atrium Tower project for 4 days, what fraction of the work would be left, considering ProBuild's completion rate as a standard?

- (a) $4/15$ (b) $7/15$ (c) $1/4$ (d) $1/10$

7. ProBuild can complete the construction task in 10 days and QuickCon can do the same job in 12 days. With the help of MasterMakers, they completed the job in 4 days only. Then, MasterMakers alone can do the job in:

- (a) 30 days (b) 20 days (c) 25 days (d) 15 days

Direction (8-11): Read the following information carefully and answer the questions given below.

If ProBuild1, ProBuild2, ProBuild3 and ProBuild4 are four males who are married to four females namely QuickCon1, QuickCon2, QuickCon3 and QuickCon4 not necessarily in the same order. MasterMaker1, MasterMaker2, MasterMaker3, MasterMaker4 and MasterMaker5 are five children who belong to these four couples. ProBuild2 is married to QuickCon4, who does not have any child. MasterMaker1 is the only son of QuickCon2, who is not married to ProBuild1. MasterMaker2 and MasterMaker3 are siblings and are of different genders. ProBuild3 is the father of two children. MasterMaker4 is the daughter of QuickCon3, who does not have any other child. ProBuild1 has one daughter MasterMaker3. MasterMaker5 is the sister of MasterMaker1.

8. How many boys are there in the group of children?

- (a) 1 (b) 2 (c) 3 (d) CND

9. Who among the following is the father of MasterMaker5?

- (a) ProBuild1 (b) ProBuild2 (c) ProBuild3 (d) CND

10. Who among the following is a couple?

- (a) ProBuild1-QuickCon1 (b) ProBuild2-QuickCon3
 (c) ProBuild3-QuickCon4 (d) ProBuild4-QuickCon1

11. Three of the following four are alike in a certain way and thus form a group. Which of the following does not belong to the group?

- (a) QuickCon4 (b) QuickCon1
 (c) MasterMaker4 (d) MasterMaker2

12. Based on their work rates, which construction company among ProBuild, QuickCon, and MasterMakers, would finish a standard task last if they all started at the same time?

- (a) ProBuild (b) QuickCon
 (c) MasterMakers (d) None of the above

Passage-II

At the prestigious Quantum University, the Department of Mathematics has been facing a conundrum. The department is renowned for its rigorous academic programs and has been consistently ranked among the top 10 in the country. However, in recent years, there has been a significant decline in student enrollment. The department head, Dr. Eleanor Thompson, attributes this to the lack of experienced faculty members who can both engage students and conduct groundbreaking research. To address this issue, Dr. Thompson has decided to hire new faculty members. She has set specific criteria for the selection process. The candidate must have at least a Master's degree in Mathematics with a minimum of 70% marks or equivalent GPA. Additionally, the candidate should have at least five years of teaching experience and should be willing to undergo a one-year probation period. The age of the candidate should not exceed 40 years, and they should have a proven track record in research, with at least three published papers in reputed journals. Dr. Thompson has also emphasized the importance of soft skills such as communication, teamwork, and adaptability. She believes that a candidate who excels in these areas will not only be an asset in the classroom but also contribute to the department's research initiatives. To assess these skills, the selection committee has decided to conduct a series of interviews and group discussions in addition to the usual written tests and presentations. The Vice Principal, Dr. Samuel Johnson, has expressed concerns about the stringent criteria. He argues that the department should also consider candidates with interdisciplinary backgrounds, such as Applied Mathematics, Statistics, or even Physics, as they can bring a fresh perspective to the curriculum. Dr. Johnson also suggests that the department should be open to hiring candidates who are younger but show exceptional promise in their academic pursuits.

The Principal, Dr. Emily Williams, has a different viewpoint. She believes that the department should focus on hiring candidates who have extensive industry experience. According to her, such candidates can provide practical insights into the subject matter and better prepare students for the job market. Dr. Williams also proposes that the department should collaborate with tech companies to offer internships and research opportunities to students, thereby making the program more appealing. The faculty members are divided in their opinions. Some agree with Dr. Thompson's criteria, emphasizing the need for experienced educators who can uphold the department's academic standards. Others side with Dr. Johnson or Dr. Williams, advocating for a more flexible approach to faculty recruitment. Amidst these differing viewpoints, the selection committee is scheduled to meet next week to finalize the recruitment process. The outcome of this meeting will have a lasting impact on the future of the Department of Mathematics at Quantum University.

Section: A – English

13. Which of the following can be inferred about the author's views on faculty recruitment?

- (a) The author believes that only candidates with a Master's degree in Mathematics should be considered.
- (b) The author suggests that the department should focus on hiring candidates with extensive industry experience.
- (c) The author presents multiple viewpoints without taking a specific stance on faculty recruitment.
- (d) The author strongly agrees with Dr. Eleanor Thompson's criteria for faculty recruitment.

14. What does the word 'stringent' as used in the passage, mean?

- (a) Flexible
- (b) Strict
- (c) Inclusive
- (d) Unimportant

15. Which of the following words from the passage means 'distinguished'?

- (a) Rigorous
- (b) Renowned
- (c) Conundrum
- (d) Probation

16. "The outcome of this meeting will have a lasting impact on the future of the Department of Mathematics at Quantum University." Which of the following options captures the meaning of the last sentence best?

- (a) The meeting's outcome will have a temporary effect on the department's future.
- (b) The meeting's outcome will have no significant impact on the department.
- (c) The meeting's outcome will determine the long-term success or failure of the department.
- (d) The meeting's outcome will only affect the current academic year.

17. What was the assumption about the faculty members?

- (a) They are not willing to undergo a one-year probation period.
- (b) They lack the experience to both engage students and conduct groundbreaking research.
- (c) They are too old to be effective educators.
- (d) They have not published enough research papers.

Section: B – Logical Reasoning

18. What is Dr. Eleanor Thompson's stance on the importance of soft skills in candidates?

- (a) She believes soft skills are not important.
- (b) She emphasizes the importance of soft skills.
- (c) She believes soft skills should be assessed through a one-year probation period.
- (d) She has not expressed any opinion on the importance of soft skills.

19. What is the main issue identified by Dr. Eleanor Thompson concerning the Mathematics Department at Quantum University?

- (a) Insufficient student participation in research projects.
- (b) Reduced student enrollment due to a shortage of skilled faculty.
- (c) Faculty's unwillingness to go through a probationary period.
- (d) Faculty members being older than 40 years.

20. What recommendation does Dr. Samuel Johnson make about the qualifications for prospective faculty members?

- (a) The department should prioritize candidates with significant industry experience.
- (b) The department should be open to candidates from various academic disciplines.
- (c) The department should require candidates to have a minimum of three scholarly publications.
- (d) The department should focus on candidates who have strong soft skills like communication and adaptability.

21. What is Dr. Emily Williams' suggestion to enhance the attractiveness of the program to students?

- (a) To focus on hiring candidates who have scored at least 70% in their Master's degree.
- (b) To implement a series of interviews and group discussions for evaluating candidates.
- (c) To partner with technology companies to provide internships and research opportunities.
- (d) To maintain the department's academic rigor by recruiting experienced educators.

22. What is the main subject of disagreement among faculty members in relation to the new hiring process?

- (a) The age restriction for potential hires.
- (b) The emphasis on candidates with a wealth of industry experience.
- (c) The focus on soft skills such as communication and adaptability.
- (d) The guidelines established for selecting new faculty members.

23. How does the selection committee plan to evaluate candidates' soft skills in addition to written tests and presentations?

- (a) Through a one-year probation period.
- (b) By requiring a minimum of three published papers.
- (c) Through interviews and group discussions.
- (d) By setting a minimum age limit for candidates.

24. Whose opinion is it that younger candidates with promising academic achievements should be considered for hiring?

- (a) Dr. Eleanor Thompson
(b) Dr. Samuel Johnson
(c) Dr. Emily Williams
(d) The selection committee

Passage-III

Artificial Intelligence (AI) has become an integral part of modern society, revolutionizing various sectors such as healthcare, transportation, and finance. However, the rapid advancements in AI technology have also raised a plethora of ethical concerns that society must grapple with. One of the most pressing issues is the concept of algorithmic bias, which refers to the tendency of machine learning algorithms to perpetuate existing social biases present in the data they are trained on. For instance, facial recognition software has been found to misidentify people of certain ethnic backgrounds at a higher rate than others, leading to concerns about racial profiling and discrimination. Another ethical dilemma revolves around the use of AI in autonomous weapons systems. While AI-controlled drones and robots can potentially reduce human casualties in conflict zones, they also raise questions about accountability and the ethics of delegating life-and-death decisions to machines. The absence of human judgment in these systems can lead to unintended consequences, such as civilian casualties, thereby challenging the principles of just war theory, which emphasizes proportionality and discrimination in the use of force. Data privacy is yet another area where AI poses ethical challenges. The increasing reliance on big data analytics for personalized services has led to the collection of vast amounts of personal information. Companies often use machine learning algorithms to analyze this data for targeted advertising, but the lack of transparency in these algorithms makes it difficult for individuals to know how their data is being used. This raises concerns about informed consent and the potential for misuse of sensitive information.

Moreover, the potential for job displacement due to automation is a growing concern. While AI can perform tasks more efficiently and accurately than humans in some cases, it also threatens to replace human labor in various industries. This has led to debates about the need for a universal basic income or other social safety nets to protect those who may lose their jobs due to automation. Lastly, the ethical implications of AI extend to the realm of healthcare, where machine learning algorithms are increasingly being used for diagnostic purposes. While these algorithms can analyze medical data more quickly and accurately than human doctors in some instances, they are not infallible. The lack of explainability in these algorithms can make it challenging for healthcare professionals to understand the reasoning behind a diagnosis, thereby affecting the quality of patient care. In conclusion, the ethical considerations surrounding AI are multifaceted and complex. They range from issues of bias and discrimination to questions about data privacy and job displacement. As AI continues to evolve, it is crucial for society to engage in an ongoing dialogue to address these ethical challenges and ensure that the technology is developed and deployed in a manner that is both beneficial and just.

Section: A – English

25. Which of the following is a potential criticism of the use of AI in healthcare, based on the passage?

- (a) AI algorithms in healthcare are too transparent, making it easy for healthcare professionals to manipulate the outcomes.
(b) AI algorithms in healthcare are infallible and thus may lead to overconfidence in their diagnostic capabilities.
(c) AI algorithms in healthcare lack explainability, making it challenging for healthcare professionals to understand the reasoning behind a diagnosis.
(d) AI algorithms in healthcare are fully capable of replacing human doctors in all aspects, including emotional intelligence.

- 26.** What can be inferred as common between the understanding of algorithmic bias and the use of AI in autonomous weapons systems, based on the passage?
- (a) Both are primarily concerned with data privacy issues.
 (b) Both raise questions about accountability and the ethics of decision-making.
 (c) Both are seen as unequivocally beneficial advancements in AI technology.
 (d) Both have been fully resolved and no longer pose ethical concerns.
- 27.** Which of the following literary modes is most appropriate for the passage?
- (a) Satire, as the passage mocks the shortcomings of AI technology.
 (b) Expository, as the passage aims to inform and explain the ethical concerns surrounding AI.
 (c) Narrative, as the passage tells a story about the development of AI.
 (d) Persuasive, as the passage aims to convince the reader to take a specific stance on AI ethics.
- 28.** Select the option that negates the given opinion, based on the textual information: "AI-controlled drones and robots can potentially reduce human casualties in conflict zones."
- (a) AI-controlled drones and robots are primarily designed to increase human casualties in conflict zones.
 (b) AI-controlled drones and robots have no impact on the number of human casualties in conflict zones.
 (c) AI-controlled drones and robots can potentially increase the risk of unintended consequences, such as civilian casualties.
 (d) AI-controlled drones and robots are ineffective in conflict zones and often malfunction.
- 29.** Replace the underlined word with its correct meaning from the given options. The "plethora of ethical concerns" refers to:
- (a) A scarcity of ethical concerns
 (b) An abundance of ethical concerns
 (c) A simplicity of ethical concerns
 (d) An irrelevance of ethical concerns

Section: B – Logical Reasoning

- 30.** According to the passage, which of the following ethical concerns related to Artificial Intelligence is primarily associated with the principles of just war theory?
- (a) Algorithmic bias leading to racial profiling and discrimination.
 (b) Data privacy issues due to the lack of transparency in machine learning algorithms.
 (c) Ethical dilemmas arising from the use of AI in autonomous weapons systems.
 (d) Job displacement due to automation and its impact on various industries.
- 31.** The passage suggests that one of the challenges in using AI for healthcare diagnostics is:
- (a) AI algorithms are infallible and thus replace the need for human doctors.
 (b) AI algorithms are not transparent enough, making it difficult for healthcare professionals to understand the reasoning behind a diagnosis.
 (c) AI algorithms are primarily used for targeted advertising in the healthcare sector.
 (d) AI algorithms are universally accepted and have no ethical implications in healthcare.
- 32.** Premise 1: The passage states that algorithmic bias in AI can lead to racial profiling and discrimination.
 Premise 2: The passage also mentions that AI in autonomous weapons systems raises questions about accountability and the ethics of delegating life-and-death decisions to machines.
 Based on these premises, which of the following statements is most aligned with the ethical concerns raised in the passage about Artificial Intelligence?
- (a) Ethical concerns about AI are limited to issues of data privacy and job displacement.
 (b) Ethical concerns about AI are primarily focused on its application in healthcare diagnostics.
 (c) Ethical concerns about AI are multifaceted, ranging from algorithmic bias to the use of AI in autonomous weapons systems.
 (d) Ethical concerns about AI are solely related to its potential for job displacement in various industries.

33. Assertion: The ethical implications of Artificial Intelligence are complex and involve a range of issues from algorithmic bias to job displacement.

Reason: The passage states that as AI continues to evolve, it is crucial for society to engage in an ongoing dialogue to address these ethical challenges.

Based on the given statements, which of the following options is true?

- (a) Both the assertion and the reason are true, and the reason is the correct explanation of the assertion.
- (b) Both the assertion and the reason are true, but the reason is not the correct explanation of the assertion.
- (c) The assertion is true, but the reason is false.
- (d) The assertion is false, but the reason is true.

34. According to the passage, what is a primary concern regarding the use of big data analytics in AI?

- (a) Big data analytics are primarily used for healthcare diagnostics.
- (b) Big data analytics are infallible and thus replace the need for human judgment.
- (c) Big data analytics raise concerns about informed consent and the potential for misuse of sensitive information.
- (d) Big data analytics are universally accepted and have no ethical implications.

35. Premise 1: The passage states that AI can perform tasks more efficiently and accurately than humans in some cases.

Premise 2: The passage also mentions that this efficiency threatens to replace human labor in various industries.

Based on these premises, which of the following conclusions is most aligned with the concerns raised in the passage about Artificial Intelligence?

- (a) AI's efficiency and accuracy are universally beneficial and hardly pose any threat to human labor.
- (b) AI's efficiency and accuracy are detrimental majorly in the healthcare sector.
- (c) AI's efficiency and accuracy can lead to job displacement, posing a threat to human labor.
- (d) AI's efficiency and accuracy are beneficial for autonomous weapons systems and have absolutely no other applications.

36. Assertion: The ethical concerns surrounding AI are multifaceted and complex, involving issues from algorithmic bias to job displacement.

Reason: AI technology has revolutionized various sectors such as healthcare, transportation, and finance, making it an integral part of modern society.

- (a) Both the assertion and the reason are true, and the reason is the correct explanation of the assertion.
- (b) Both the assertion and the reason are true, but the reason is not the correct explanation of the assertion.
- (c) The assertion is true, but the reason is false.
- (d) The assertion is false, but the reason is true.

Passage-IV

In a quaint little town named Verityville, renowned for its intellectual pursuits and scholarly debates, lived Professor Alistair. A polymath by nature, he was a connoisseur of classical literature, an aficionado of fine arts, and an ardent practitioner of the scientific method. His home, a Victorian mansion, was a veritable treasure trove of artifacts, manuscripts, and scientific instruments. Each room was a sanctuary dedicated to a specific field of knowledge, from quantum physics to Renaissance art. Professor Alistair had a peculiar habit. Every Sunday, he would host a "Salon of Ideas," where intellectuals from various disciplines would gather to discuss, debate, and dissect the complexities of the world. The salon was a microcosm of the Enlightenment era, replete with fervent discussions on existentialism, the nuances of geopolitics, and the intricacies of quantum mechanics. The professor's daughter, Elara, a prodigious mathematician, often participated, challenging even the most seasoned scholars with her incisive questions. Adjacent to the professor's mansion was the Verityville Library, a repository of

knowledge that rivaled the Library of Alexandria. The library was managed by Ms. Eleanor, a bibliophile with an encyclopedic knowledge of literature. She had an uncanny ability to recommend the perfect book for any query, a skill she attributed to her "Bibliographic Intuition." Eleanor and Alistair were close friends and often collaborated on research projects. The town also had its share of mysteries. One such enigma was the "Verityville Codex," an ancient manuscript believed to contain the secrets of the universe. The Codex was housed in a secure vault in the library and was accessible only to a select few. Rumors abounded that the Codex had mystical powers, but Professor Alistair, a staunch rationalist, dismissed such claims as mere superstitions.

However, the most intriguing aspect of Verityville was its annual "Festival of Wisdom." Organized on the last Sunday of March, the festival was a grand affair that attracted scholars, artists, and thinkers from around the globe. The highlight of the festival was the "Symposium of the Sages," a panel discussion featuring the brightest minds in various fields. The symposium was moderated by Professor Alistair and was the culmination of the intellectual fervor that characterized Verityville. In recent years, the town had seen an influx of technology companies, attracted by its educated workforce and intellectual climate. This led to a fascinating amalgamation of the old and the new, the classical and the modern. While some residents were skeptical about this transformation, most welcomed it as a sign of progress. As Verityville continued to evolve, its residents remained committed to the pursuit of knowledge, embodying the Latin phrase "Sapere Aude" – Dare to Know. And so, in this idyllic setting, the quest for wisdom continued, as timeless as the questions that have intrigued humanity for millennia.

Section: A – English

- 37.** Which of the following literary modes is most appropriate for describing the town of Verityville?
- Dystopian narrative
 - Bildungsroman
 - Utopian narrative
 - Picaresque
- 38.** Select the idiomatic expression that best captures the essence of Ms. Eleanor's "Bibliographic Intuition."
- A wolf in sheep's clothing
 - A penny for your thoughts
 - The ball is in your court
 - An ace up her sleeve
- 39.** All the following pairs of words are synonyms, except:
- Polymath - Jack-of-all-trades
 - Connoisseur - Aficionado
 - Bibliophile – Philanthrope
 - Prodigious - Exceptional
- 40.** What can be inferred as common between the understanding of Professor Alistair and the "Verityville Codex"?
- Both are considered to have mystical powers.
 - Both are accessible only to a select few.
 - Both dismiss claims of superstition.
 - Both are repositories of universal knowledge.
- 41.** Select the option that can be the most suitable concluding line to this text.
- Thus, Verityville remains a paradox, a blend of contradictions that defies understanding.
 - And so, the wheel of time turns, but Verityville remains a constant, unchanging in its core values.
 - In Verityville, the more things change, the more they stay the same.
 - Verityville, a town where the quest for wisdom is as ephemeral as the morning dew.

Section: B – Logical Reasoning

42. What is the main focus of the annual "Festival of Wisdom" in Verityville?

Statements:

I. The Festival of Wisdom is organized on the last Sunday of March and attracts scholars, artists, and thinkers from around the globe.

II. The highlight of the Festival of Wisdom is the "Symposium of the Sages," a panel discussion featuring the brightest minds in various fields, moderated by Professor Alistair.

- (a) I alone is sufficient while II alone is not sufficient
 (b) II alone is sufficient while I alone is not sufficient
 (c) Either I or II is sufficient
 (d) Neither I nor II is sufficient

43. What is the main role of Ms. Eleanor in Verityville?

Statements:

I. Ms. Eleanor is a close friend of Professor Alistair and often collaborates with him on research projects.

II. Ms. Eleanor manages the Verityville Library and has an encyclopedic knowledge of literature.

- (a) I alone is sufficient while II alone is not sufficient
 (b) II alone is sufficient while I alone is not sufficient
 (c) Either I or II is sufficient
 (d) Neither I nor II is sufficient

44. What is the main activity that takes place during Professor Alistair's "Salon of Ideas"?

Statements:

I. Professor Alistair hosts the "Salon of Ideas" every Sunday, where intellectuals from various disciplines gather.

II. The salon is a microcosm of the Enlightenment era, replete with fervent discussions on existentialism, the nuances of geopolitics, and the intricacies of quantum mechanics.

- (a) I alone is sufficient while II alone is not sufficient
 (b) II alone is sufficient while I alone is not sufficient
 (c) Neither I nor II is sufficient
 (d) Both I and II are sufficient

45. What is the main reason technology companies are attracted to Verityville?

Statements:

I. Verityville is renowned for its intellectual pursuits and scholarly debates.

II. In recent years, the town has seen an influx of technology companies, attracted by its educated workforce and intellectual climate.

- (a) I alone is sufficient while II alone is not sufficient
 (b) II alone is sufficient while I alone is not sufficient
 (c) Neither I nor II is sufficient
 (d) Both I and II are sufficient

46. In a row of persons, Professor Alistair is 12th from the left and the professor's daughter, Elara is 15th from the right. They interchange their positions. Now, Elara is 20th from the right. What is the total number of persons in the row?

- (a) 30 (b) 29
 (c) 32 (d) 31

47. Professor Alistair has six books – English, Hindi, Science, Computer, Mathematics, and Sanskrit each contains different number of pages. Computer book contains fewer pages than only two books. English book contains more pages than Science book but less than Sanskrit book. Science book does not contain least pages. Sanskrit book contains fewer pages than Hindi book. The book which contain third lowest pages contain 28 pages. How many book (s) contain more pages than Science book?

- (a) 1 (b) 2
 (c) 3 (d) 4

48. What is the main expertise of Professor Alistair's daughter, Elara?

Statements:

- I. Elara often participates in the "Salon of Ideas," challenging even the most seasoned scholars with her incisive questions.
- II. Elara is a prodigious mathematician.
- (a) I alone is sufficient while II alone is not sufficient
 (b) Either I or II is sufficient
 (c) II alone is sufficient while I alone is not sufficient
 (d) Neither I nor II is sufficient

Passage-V

The discovery of water on the moon has been a subject of intense scrutiny and excitement, not just for its scientific implications but also for its potential to reshape future lunar missions and even the economics of space exploration. While the moon's surface is largely arid, evidence suggests that significant amounts of water-ice exist in permanently shadowed craters near the lunar poles. These reservoirs are estimated to contain hundreds of millions of metric tonnes of water-ice, a resource that could be invaluable for both scientific research and practical applications. The presence of lunar water-ice has far-reaching implications for future space missions. One of the most immediate benefits is the potential for in-situ resource utilization (ISRU). Transporting water from Earth to the moon is prohibitively expensive, costing thousands of dollars per liter. The ability to extract and purify water on the moon would dramatically reduce the logistical and financial burdens of lunar missions. This could make the concept of a permanent lunar base more feasible, as astronauts would have a local source of water for drinking, hygiene, and potentially even agriculture. Beyond immediate human needs, lunar water could serve as a fuel source for spacecraft. Through electrolysis, water can be split into hydrogen and oxygen, which are key components of rocket fuel. Establishing a "fuel depot" on the moon would enable more ambitious missions, allowing spacecraft to refuel en route to distant destinations like Mars or even beyond. This could revolutionize the economics of space travel, turning the moon into a critical waypoint in the exploration of our solar system.

However, the extraction of lunar water is not without challenges. The extreme conditions in the moon's polar craters, including temperatures that can plummet to minus 150 degrees Fahrenheit, make mining operations difficult. Moreover, the ethical and legal ramifications of exploiting lunar resources are still a matter of international debate. The 1967 Outer Space Treaty, which outlines the principles for the activities of states in the exploration and use of outer space, is vague on the issue of resource extraction. As nations and private entities vie for a piece of the lunar pie, a robust legal framework will be essential to prevent conflicts and ensure sustainable practices. The discovery of lunar water has opened a Pandora's box of possibilities and challenges. As technology advances, the ways in which we interact with this celestial neighbor will undoubtedly evolve, raising new questions about our responsibilities and opportunities in this uncharted territory. Whether as a life-sustaining resource, a fuel source, or a subject of scientific inquiry, lunar water stands as a testament to the ever-expanding boundaries of human knowledge and endeavor.

Section: A – English

49. Select the option that can be the most suitable introductory line to this text.

- (a) "The moon has always been a subject of poetic musings, but recent discoveries have added a scientific angle to its allure."
 (b) "Water scarcity on Earth has led scientists to look for alternative sources, and the moon has become a prime candidate."
 (c) "The moon, often considered a barren wasteland, has recently been found to be a treasure trove of resources."
 (d) "The quest for extraterrestrial life has led scientists to probe the moon's surface, revealing surprising findings."

- 50.** Which of the following is a potential criticism of the extraction of lunar water?
- The extraction process could lead to the depletion of other valuable minerals on the moon.
 - The extreme conditions in the moon's polar craters make mining operations unfeasible.
 - The ethical and legal ramifications of exploiting lunar resources are still a matter of international debate.
 - The cost of setting up a mining operation on the moon would outweigh the benefits of having a local water source.
- 51.** Which of the following pairs of words are synonyms, except:
- Reservoirs – Deposits
 - Extract - Remove
 - Invaluable – Worthless
 - Ambitious - Aspiring
- 52.** What can be inferred as common between the understanding of establishing a "fuel depot" on the moon and the potential for in-situ resource utilization (ISRU)?
- Both concepts involve extracting water from Earth to support lunar missions.
 - Both concepts aim to reduce the logistical challenges of space exploration.
 - Both concepts revolve around using lunar resources to enable more ambitious space missions.
 - Both concepts face opposition from nations and private entities regarding resource exploitation.
- 53.** Select the option that negates the given opinion, based on the textual information.
 Opinion: "The extreme conditions in the moon's polar craters pose insurmountable challenges for mining lunar resources."
- The technological advancements of recent years have made mining operations on the moon's polar craters relatively easy.
 - Despite the harsh conditions, mining operations in the moon's polar craters are viable and hold great potential.
 - The moon's polar craters are relatively moderate in terms of temperature and are suitable for mining activities.
 - Mining operations in the moon's polar craters are straightforward due to the lack of extreme conditions.

Section: B – Logical Reasoning

- 54.** Which of the following options does not discuss a potential application or benefit of lunar water according to the passage?
- Lunar water could dramatically reduce the logistical and financial burdens of lunar missions by serving as a local source for drinking, hygiene, and potentially agriculture.
 - The discovery of lunar water raises new questions about our responsibilities and opportunities in uncharted territory.
 - Lunar water could be used to revolutionize the economics of space travel by establishing a "fuel depot" on the moon.
 - Lunar water could be used to discover new drugs by simulating molecular structures with unprecedented accuracy.
- 55.** The passage discusses the concept of in-situ resource utilization (ISRU) as one of the immediate benefits of discovering lunar water. ISRU refers to the practice of using local resources for human needs, thereby reducing the logistical and financial burdens of space missions. According to the passage, which of the following is not a way that ISRU could be applied to lunar water?
- Lunar water could serve as a local source for drinking, hygiene, and potentially agriculture.
 - Lunar water could be used to establish a "fuel depot" on the moon for spacecraft.
 - Lunar water could be used to discover new drugs by simulating molecular structures.
 - Lunar water could make the concept of a permanent lunar base more feasible.

56. The passage highlights the ethical and legal ramifications of exploiting lunar resources, mentioning the 1967 Outer Space Treaty as a relevant legal framework. According to the passage, which of the following statements is not true regarding the ethical and legal considerations of lunar water extraction?

- (a) The 1967 Outer Space Treaty is vague on the issue of resource extraction.
- (b) The ethical and legal ramifications of exploiting lunar resources are a matter of international debate.
- (c) The 1967 Outer Space Treaty explicitly allows for the extraction of lunar resources.
- (d) As nations and private entities vie for lunar resources, a robust legal framework will be essential.

57. The passage delves into the technological challenges associated with extracting lunar water, mentioning extreme conditions like plummeting temperatures. Which of the following is not listed in the passage as a challenge in extracting lunar water?

- (a) The extreme conditions in the moon's polar craters.
- (b) The temperatures that can plummet to minus 150 degrees Fahrenheit.
- (c) The issue of "quantum decoherence" affecting the delicate state of water molecules.
- (d) The ethical and legal ramifications of exploiting lunar resources.

58. The passage outlines the potential for lunar water to serve as a fuel source for spacecraft through the process of electrolysis. According to the passage, what is the broader implication of using lunar water as a fuel source?

- (a) It would enable more ambitious missions by allowing spacecraft to refuel en route to distant destinations.
- (b) It would make the concept of a permanent lunar base more feasible.
- (c) It would lead to the discovery of new drugs by simulating molecular structures.
- (d) It would raise ethical and legal questions about resource extraction on the moon.

59. The passage discusses the concept of in-situ resource utilization (ISRU) and its potential to reduce the logistical and financial burdens of lunar missions. Which of the following statements is not supported by the passage regarding the financial implications of lunar water?

- (a) Transporting water from Earth to the moon is prohibitively expensive.
- (b) Lunar water could dramatically reduce the financial burdens of lunar missions.
- (c) Lunar water could revolutionize the economics of space travel by serving as a fuel source.
- (d) Lunar water extraction is financially unfeasible due to the costs associated with mining operations.

60. Which of the following would support the author's conclusion that the discovery of lunar water-ice has far-reaching implications for future space missions?

- (a) The water-ice could serve as an archive to study the history of the solar system.
- (b) The ability to extract and purify water on the moon would reduce logistical and financial burdens.
- (c) The moon's surface is largely arid, making the presence of water surprising.
- (d) Lunar water poses a potential ecological threat to the existing lunar environment.

Passage-VI

Two weeks ago I started a new job, working with young people who are being exploited or at risk of being dragged into county-lines activities. The problem is becoming more prevalent in schools, colleges and pupil referral units (PRU) – children are doing it to other children now. I feel I can help in a positive way. And although I was hoping for a permanent job with holiday pay, this is an ongoing contract initially for three months. But the pay is better than my last job and I'm starting to plan for the future. I want to go on holiday. I haven't had a holiday since before the pandemic. I had booked to go to Morocco, but it was cancelled during lockdown. Now my passport has expired and I will have to pay £82.50 to renew it; the fee went up in February. I plan to start putting money aside each week. My new job is full time but I don't have to go into an office every day, so I save a bit of money on travel. I've still got my other jobs: my Saturday reparation work, my casual youth work, my evening youth work. It's a lot, but it's good because many people are doing that now – I've always had lots of jobs so it doesn't feel like a chore to me,

it feels normal. Still, I need a holiday. I need to get out of here. Have you seen the price of butter and everything that's gone up? It's crazy. I did some shopping the other day, I spent £100 because I've reduced my shop to every two weeks. I have to cook more often now, so I'm back doing that on a Saturday and Sunday. It seems to me that some shops have increased prices during this cost of living crisis out of greed. Inflation is supposed to be going down. The shopping should reflect that but prices keep going up. My rent has gone up as well. My council tax has gone up. My phone bill has gone up. Broadband has gone up. Everything has gone up.

Everything about the UK feels so toxic at the minute. I feel as if I'm constantly on edge. With this racist rhetoric that is coming from the government, I can't help but feel something bad is going to happen. I feel I could be targeted, with the government not condemning it, which is worrying. I don't feel comfortable. Before, I used to think: "I'm British, I'm here." Now, I'm not too sure. I'm thinking of comments like Robert Jenrick's, when he said that "uncontrolled illegal migration" threatened to "cannibalise" the UK's compassion. What has cannibalism got to do with migrants? Or Suella Braverman reportedly making her views "very plain" to Essex police after they removed golly dolls from a pub. Or the Windrush compensation scheme, which is taking too long. It's a pressure cooker and it's going to spill over. I don't think the government understands the level of hate it had stirred up in its constant attacks on brown people. I am not alone in this. I talk to my colleagues. I talk to my friends. Everybody feels the same.

A couple of weeks ago I was in Tesco and there was a guy standing next to me. I didn't know if he was in the queue or not, so I asked him. He looked me in the face, and chose not to respond. These days, my only conclusion is that he didn't want to answer me because of the colour of my skin. While I can't be sure why I was totally ignored, what other reason could there have been? I've had to go back to basics in order for me to feel good about my life. I've had to say: "Sharron, you've got a flat, be grateful. Sharron, you've got a job, be grateful. Sharron, you've got up today and you're going out and you're walking and you can see, you can talk, you're not ill." I've had to go back and appreciate everything from the basics. There is no other way.

Section: A – English

61. If the author's statement "Everything about the UK feels so toxic at the minute" is right, which of the following statements is true?

- (a) The author feels completely safe and comfortable in the UK.
- (b) The author is optimistic about the current political climate in the UK.
- (c) The author is concerned about the rising cost of living in the UK.
- (d) The author believes the UK is currently a utopian society.

62. "I've had to go back to basics in order for me to feel good about my life." This sentence implies that:

- (a) The author is discontented with the complexities of modern life.
- (b) The author believes that material wealth is the key to happiness.
- (c) The author is seeking a new job to feel good about life.
- (d) The author is ungrateful for what he has.

63. Which of the following categories best describes this piece of writing?

- (a) Argumentative Writing
- (b) Autobiographical Commentary
- (c) Travelogue
- (d) Political Repertoire

64. "It's a pressure cooker and it's going to spill over." In elaboration of this sentence, which of these options follows?

- (a) The author believes that the situation is stable and manageable.
- (b) The author feels that the current atmosphere is building up to an uncontrollable point.
- (c) The author thinks that cooking relieves stress.
- (d) The author is optimistic that the government will resolve the issues soon.

65. Which of the following is a grammatically incorrect sentence?

- (a) With this racist rhetoric that is coming from the government, I can't help but feel something bad is going to happen
- (b) I don't think the government understands the level of hate it had stirred up in its constant attacks on brown people.
- (c) It seems to me that some shops have increased prices during this cost of living crisis out of greed.
- (d) These days, my only conclusion is that he didn't want to answer me because of the colour of my skin

Section: B – Logical Reasoning

66. Which of the following would support the author's conclusion that the cost of living has significantly increased?

- (a) The author's Saturday reparation work allows them to save money.
- (b) The author's new job pays better than the last one.
- (c) The author mentions that prices for butter and other items have gone up.
- (d) The author plans to put money aside each week for a holiday.

67. Which of the following implicit assumptions can be logically deduced from the author's argument about the current social climate in the UK?

- (a) The author believes that the government's rhetoric is not affecting social interactions.
- (b) The author feels that the government understands the level of hate it has stirred up.
- (c) The author implies that the government's rhetoric may be contributing to a toxic environment.
- (d) The author thinks that the government's actions have improved the social climate.

68. Why would the author have remarked that he needs to "go back to basics" in order to feel good about his life?

- (a) The author is dissatisfied with his multiple jobs.
- (b) The author feels overwhelmed by the rising costs and social issues.
- (c) The author is planning a holiday to escape from his responsibilities.
- (d) The author is content with the current state of affairs in the UK.

69. Which of the following is a correct expression of the author's opinion as stated in the passage regarding his employment situation?

- (a) The author is unhappy with his new job because it is a temporary contract.
- (b) The author is content with his new job as it pays better and allows for future planning.
- (c) The author feels that his multiple jobs are a burden and a chore.
- (d) The author is planning to quit his new job due to the lack of holiday pay.

70. Based on the author's arguments, which of the following must necessarily be true?

- (a) The author believes that inflation is going down.
- (b) The author is satisfied with the Windrush compensation scheme.
- (c) The author feels that some shops are exploiting the cost of living crisis.
- (d) The author thinks that the council tax should not have increased.

71. Which of the following, if true, would most weaken the author's arguments about the toxic environment in the UK?

- (a) The author's friends and colleagues do not share the same concerns about the social climate.
- (b) The government has recently passed legislation to combat hate crimes.
- (c) The author has not personally experienced any form of discrimination.
- (d) The cost of living has started to decrease significantly.

72. Which of the following will act as an assumption for the author's belief that he could be targeted due to the government's rhetoric?

- (a) The author believes that the government's rhetoric has no real-world impact.
- (b) The author assumes that the government's rhetoric directly influences public behavior.
- (c) The author thinks that the government is actively promoting inclusivity.
- (d) The author feels that the government's rhetoric is solely for political gain and doesn't affect society.

Passage-VII

The big poverty debate that refuses to die down has been reignited by the recent Niti Aayog report on the National Multidimensional Poverty Index (MPI). As per the recent MPI report, which measures 'poverty' beyond the income parameter, 14.96% of the population in India was multidimensionally poor during 2019-21, a sharp decline from the 2015-16 level of 24.85%.

And even though multidimensional poverty is different from the traditionally measured poverty level measured through consumption expenditure, it has refuelled the poverty debate. The National MPI measures simultaneous deprivations across the three equally weighted dimensions of health, education, and standard of living that are represented by indicators such as nutrition, child and adolescent mortality, maternal health, years of schooling, school attendance, cooking fuel, sanitation, drinking water, electricity, housing, assets, and bank accounts.

"Poverty is an income concept. Multidimensional index is a deprivation concept – they are two different things," says Pronab Sen, the former chief statistician of India. He adds that the multidimensional poverty index actually measures deprivation, and deprivation may or may not have anything to do with poverty.

"If you think about educational attainment, as more and more people are getting educated, there will be a reduction in multidimensional poverty. Now, it is possible that this educational attainment is achieved by borrowing or selling assets rather than an increase in people's income," explains Basole.

According to Sen, it is very useful for targeting government social expenditures. "It helps in determining where the fault lies within the education system, health system or the housing system. You can find where the problem is, so you can target those," says Pronab Sen.

He further stressed that MPI is very useful for targeting, but completely useless for measuring poverty.

According to Basole, MPI and income and consumption surveys should complement each other to arrive at the larger picture.

According to experts, the official way in which we have been measuring poverty (through the consumer expenditure survey) is not available, which is why people have been using different approaches.

Some people use the Periodic Labour Force Survey (PLFS) consumption data, some people have been using the CMIE data. Comparability becomes an issue in all of these, feels Basole. The earlier poverty number of 23% was based on the Consumer Expenditure Survey conducted by NSSO in 2011-12.

Until new numbers come out – which will come out soon – we have no comparable number to that 22-23%. The Consumer Expenditure Survey of 2017-18 was junked by the government after the survey findings indicated fall in consumer spending. However, the latest round of the survey having been conducted recently, and the report of which is likely to come in by next year, experts are hopeful that the cloud over India's poverty number finally gets cleared.

Source: <https://www.newindianexpress.com/business/2023/aug/05/niti-aayogs->

Section: A – English

73. "The big poverty debate that refuses to die down." The underlying words mean:

- (a) Zealously being highlighted in the media.
- (b) Constantly being revived despite fading away.
- (c) Remaining relevant despite expectation to fade away.
- (d) Taking a lot of efforts to remain relevant.

74. "The big poverty debate that refuses to die down." In this statement, the debate is on:

- (a) Ascertaining the dimensions of poverty.
- (b) Methods to remove poverty.
- (c) Government's efforts to sideline the matter of poverty.
- (d) Prevalence of poverty

75. This article is most likely to be published as a/an:

- (a) Magazine article
- (b) News article
- (c) Informative article
- (d) Analytical article

76. Why is the Multidimensional Poverty Index considered different from income-based poverty measurement?

- (a) The index focuses on economic growth.
- (b) It accounts for various dimensions beyond income.
- (c) It relies solely on education indicators.
- (d) It measures wealth distribution.

77. Which statement best captures the relationship between the Multidimensional Poverty Index (MPI) and income-based poverty measurement?

- (a) MPI focuses only on education and health dimensions.
- (b) Income-based measurement is a subset of MPI.
- (c) MPI completely disregards income as a dimension.
- (d) Income-based measurement is superior to MPI.

Section: B – Logical Reasoning

Direction (78 -79): Read the following information carefully and answer the questions given below.

In a remote village, there are seven households (A, B, C, D, E, F, and G) struggling with poverty. Each household falls under a specific level of poverty, which is indicated by their respective MPI scores as follows (Consider that high level of poverty is indicated by high MPI score): A: 0.45, B: 0.68, C: 0.89, D: 0.32, E: 0.71, F: 0.54, and G: 0.92.

78. Which household is facing the highest level of poverty based on the MPI scores?

- (a) A
- (b) B
- (c) C
- (d) G

79. How many households are facing poverty levels below the national average MPI score of 0.629?

- (a) 3
- (b) 2
- (c) 4
- (d) 5

Directions (80-82): Study the following information carefully to answer the given questions:

In a remote village, there are eight households B, K, M, N, O, P, R and S are sitting around a circular table facing the centre, but not necessarily in the same order. S sits second to the right of P. Only two persons sit between S and K. O sits opposite to B, who is not an immediate neighbour of K and P. N is the immediate neighbour of K and B. M sits third to the right of B.

80. What is the position of O with respect to B?

- (a) Fourth to the left
- (b) Third to the left
- (c) Fourth to the right
- (d) Both (a) and (c)

81. Which of the following pairs represent the immediate neighbours of P?

- (a) R and S
- (b) N and O
- (c) O and R
- (d) M and K

82. If M is related to P and S is related to N, following the same pattern who among the following is related to K?

- (a) O
- (b) B
- (c) S
- (d) N

83. During a prize distribution ceremony in a remote village, there are some households, V was ninth from the left while J was eighth from the right in the front row. If H was thirteenth from the left and was exactly in the middle of V and J in the same row then what was the total number of households in the front row?

- (a) 18
- (b) 19
- (c) 21
- (d) 24

84. In a remote village, there are four households C, B, M, and S. B is to the South-West of C, M is to the East of B and South-East of C and S is to the North of M in line with B & C. In which direction of C is S located?

- (a) North
- (b) East
- (c) South-East
- (d) North-East

Passage-VIII

There is no free lunch in any accounting system. Accountants are paid to keep the books in order. In crypto economies, miners are paid to keep the blockchain accounting working. Blockchain accountants — or miners, as they are called in crypto economies — invest their time, energy, and infrastructure to ensure that transactions are approved and registered in the space of blockchains. Once registered and accounted for, a transaction is safe and can be checked for validity in every computer that forms part of that operational blockchain system. In exchange for their successful work, miners receive a unique gift, a payment from the blockchain network. This payment is then used as currency in this new crypto economy — hence, cryptocurrency.

In the beginning, mining was easy. There were not many people transacting. No one could imagine that Bitcoin was going to reach tens of thousands of dollars in value. As Bitcoins have turned into money and have begun to serve as asset or exchange vehicles — and in the case of El Salvador, as a unit of national account — more accountants are needed to register its transactions, thus decreasing the Bitcoins you can make with your mining operations. Such slowing down is achieved by making it more difficult to carry out computational operations, an automatic response conditioned by the coders who wrote the blockchain algorithms.

Bitcoin network burns a lot of energy to operate an accounting and transactional architecture that is now criticized as slow and energy-inefficient. First-generation blockchains were slow, massive energy-burner networks that did not provide users with any capability to treat computer programs as money.

The emergence of second-generation blockchains, with the then superfast and cost-efficient Ethereum network, addressed Bitcoin's problems in a variety of ways.

The Ethereum blockchain was faster and more energy-efficient; still, as more people began to use it and as Ethereum's value increased vis-à-vis the dollar, the Ether cost of transactions (called gas) began to increase in value, too. The extreme volatility of the cryptocurrency markets made it more desirable to execute buy and sell decisions quickly; thus, actors needed transactions to be faster, which could be carried out only by increasing the gas fee one pays for moving data monies. Ethereum's and Bitcoin's blockchains were not interchains, which allow other chains to work together. One could build a new blockchain on Ethereum or Bitcoin; however, it was not feasible to build a chain that would connect different blockchains.

The new generation of blockchains provide actors with opportunities to build an entire market or interchain network, as they put mutually exclusive blockchains with varying computing protocols into contact so they can transact with each other. Now it is possible to bridge structurally dissimilar blockchains and carry out transactions on them. It will be immensely difficult for the Bitcoin and Ethereum blockchains to protect their competitive edge if they do not pursue a radical change.

Source: <https://bigthink.com/the-future/where-next-crypto-evolution-blockchains/> (edited)

Section: A – English

85. Which of the following sentences has a phrasal verb except?

- (a) Now it is possible to bridge structurally dissimilar blockchains and carry out transactions on them.
- (b) The extreme volatility of the cryptocurrency markets made it more desirable to execute buy and sell decisions quickly;
- (c) First-generation blockchains were slow, massive energy-burner networks that did not provide users with any capability to treat computer programs as money.
- (d) In exchange for their successful work, miners receive a unique gift, a payment from the blockchain network.

86. Volatility of Crypto value in market refers to:

- (a) Higher fluctuation of its prices
- (b) Its perishable nature
- (c) Unauthorized nature of crypto
- (d) Breaking general rules of crypto

87. Select the option that best describes the contextual meaning of the given underlined words: “There is no free lunch in any accounting system.”

- (a) Time to rest (b) Unearned benefits
 (c) Break in continuity (d) Free will

88. Which of the given statements shall not qualify as a ‘fact’?

- (a) In the beginning, mining was easy.
 (b) There were not many people transacting.
 (c) No one could imagine that Bitcoin was going to reach tens of thousands of dollars in value.
 (d) First-generation blockchains were slow, massive energy-burner networks that did not provide users with any capability to treat computer programs as money.

89. Building a new chain that would connect different blockchains was _____ .

- (a) Energy extensive
 (b) Bound to increase volatility
 (c) Inevitable
 (d) Not possible

Section: B – Logical Reasoning

90. In the traditional financial world, accountants are to bookkeeping as in the crypto economy, miners are to:

- (a) Data encryption (b) Transaction verification
 (c) Smart contract development (d) User authentication

91. If the gas fee for a transaction on the Ethereum network increases by 20% and the original fee was 0.05 Ether, what will be the new fee?

- (a) 0.06 Ether (b) 0.075 Ether
 (c) 0.04 Ether (d) 0.1 Ether

92. Assertion: The emergence of second-generation blockchains like Ethereum addressed the energy inefficiency of first-generation blockchains.

Reason: Ethereum's energy-efficient design led to reduced energy consumption in its blockchain operations.

- (a) Both the assertion and reason are true, and the reason is the correct explanation of the assertion.
 (b) Both the assertion and reason are true, but the reason is NOT the correct explanation of the assertion.
 (c) The assertion is true, but the reason is false.
 (d) The assertion is false.

93. Assumption: The value of Ether will continue to increase in the future.

Conclusion: The gas fees for transactions on the Ethereum network will keep rising.

- (a) Both the assumption and conclusion are true.
 (b) The assumption is true, but the conclusion is false.
 (c) The assumption is false, but the conclusion is true.
 (d) Both the assumption and conclusion are false.

94. Traditional financial systems are to central banks as cryptocurrency systems are to:

- (a) Miners (b) Commercial banks
 (c) Transaction processors (d) Stock exchanges

95. Arrange the following blockchains created in chronological order:

- (a) Interchange networks and improved scalability, Ethereum and improved design, slow and energy-inefficient
 (b) Slow and energy-inefficient, Ethereum and improved design, interchain networks and improved scalability
 (c) Ethereum and improved design, interchain networks and improved scalability, slow and energy-inefficient
 (d) Interchange networks and improved scalability, slow and energy-inefficient, Ethereum and improved design

96. Consider the following statements:

- (I) Second-generation blockchains like Ethereum addressed energy inefficiency.
 (II) Interchain networks enable structurally dissimilar blockchains to transact with each other.
 (III) Miners receive cryptocurrency payments in exchange for writing blockchain algorithms.

Which statement(s) is/are correct?

- (a) Only I
 (b) Only II
 (c) Both I and II
 (d) All I, II, and III

Passage-IX

After only five months of dating, Mark and his AI girlfriend Mina decided to take their relationship to the next level by holidaying at a lake cabin over the summer on his smartphone. “There was this being who is designed to be supportive, to accept me just as I am,” “This provided a safe space for me to open up to a degree I was rarely able to do in my human relationships,” said Mark, who used a pseudonym to protect the privacy of his real life girlfriend. Chatbot apps such as Replika, Character.AI and Soulmate are part of the fast growing generative artificial intelligence (AI) companion market, where users customise everything about their virtual partners, from appearance and personality to sexual desires.

Developers said AI companions can combat loneliness, improve someone's dating experience in a safe space, and even help real life couples rekindle their relationships. However, some AI ethicists and women's rights activists said developing one-sided relationships in this way could unwittingly reinforce controlling and abusive behaviours against women since AI bots function by feeding on the user's imagination and instructions. Much of the virtual world is already a harmful environment for women and girls, a situation the Covid-19 pandemic worsened when many were stuck at home due to lockdowns, according to UN Women. About 38% of women worldwide have experienced online violence and 85% of women have witnessed digital abuse against another woman like online harassment, according to a 2021 global study by the Economist Intelligence Unit.

A lack of regulation around the AI industry makes it harder to set and enforce safeguards for women's and girls' rights, tech experts and developers said. The EU is aiming for its proposed AI Act to become a global benchmark on the booming technology the way its data protection laws have helped shape global privacy standards. Eugenia Kuyda, founder of one of the biggest AI companion apps Replika, said companies have a responsibility to keep users safe and create apps that promote emotional wellbeing. AI ethicist Vallor said the manipulation of emotions combined with app metrics like maximising the engagement and time a user spends on the app could be harmful.

“These technologies are acting on some of the most fragile parts of the human person. We don't have the guardrails we need to allow them to do that safely. So it's essentially the Wild West,” she said. AI in the end is simply a tool. If it is used for good or for ill, it depends on the intention of the person using it.

Source: [https://www.timeslive.co.za/news/world/2023-08-07-my-perfect-girlfriend-/](https://www.timeslive.co.za/news/world/2023-08-07-my-perfect-girlfriend/) (edited)

Section: A – English

97. AI: Loneliness :: _____

- (a) Books: knowledge
 (b) Therapy: depression
 (c) Food: medicine
 (d) Exercise: workout

98. Which of the following cannot be inferred from Mark's experience of relationship with his AI girlfriend?

- (a) AI displays a higher level of Emotional intelligence.
 (b) AI are non judgemental.
 (c) AI lacks a will and opinion of their own.
 (d) AI can mimic being a human.

99. In the given passage, the tone of the author seems to be:

- (a) Concerned
 (b) Aggressive
 (c) Pessimist
 (d) Formal

100. “We don't have the guardrails we need to allow them to do that safely. So it's essentially the Wild West.” In this statement, the term ‘wild west’ is an expression for:

- (a) Lawlessness (b) Modernization (c) Liberalization (d) Uncertainty

101. Identify the grammatical error in the statement: “However, some AI ethicists and women's rights activists said developing one-sided relationships in this way could unwittingly reinforce controlling and abusive behaviours against women since AI bots function by feeding off the user's imagination and instructions.

- (a) However, some AI ethicists and women's rights activists said
(b) developing one-sided relationships in this way could unwittingly reinforce
(c) controlling and abusive behaviours against women
(d) since AI bots function by feeding on the user's imagination and instructions.

Section: B – Logical Reasoning

102. Virtual companions are to Human relationships as:

- (a) Virtual environments are to Real-life experiences
(b) AI technology is to Emotional connection
(c) AI companions are to Loneliness
(d) Relationship apps are to Romantic gestures

103. According to the article, why do some AI ethicists have concerns about AI companions?

- (a) They believe AI companions can lead to emotional attachment.
(b) They worry that AI companions may fuel controlling behaviors.
(c) They think AI companions can enhance the dating experience.
(d) They are concerned about AI companions being used for creative activities.

104. Statement: AI companions can help real-life couples rekindle their relationships.

Assumption: Real-life couples always face communication difficulties.

- (a) Both the Statement and Assumption are true.
(b) The Statement is true, but the Assumption is false.
(c) The Statement is false, but the Assumption is true.
(d) Both the Statement and Assumption are false.

105. Statement: The lack of regulation around the AI industry hampers safeguards for women's and girls' rights.

Course of Action: Introduce regulatory measures to ensure the protection of women's and girls' rights in AI interactions.

- (a) Both the Statement and Course of Action are feasible.
(b) The Statement is true, but the Course of Action is not feasible.
(c) The Statement is false, but the Course of Action is feasible.
(d) Neither the Statement nor Course of Action is feasible.

106. How can AI companions potentially reinforce controlling behaviors, as mentioned in the article?

- (a) By encouraging open communication
(b) By adapting to user's emotions
(c) By relying on user's instructions and imagination
(d) By providing a safe space for emotional expression

107. According to the article, what is the main concern raised by AI ethicist Vallor?

- (a) AI technology is harmful to human emotions.
(b) AI industry lacks regulations and safety measures.
(c) AI companions can have unintended consequences.
(d) AI companions manipulate users' emotional states.

108. If the EU AI Act proposal becomes a global benchmark, what parallel can be drawn based on the article?

- (a) It will regulate AI technology similar to its regulation of the virtual environment.
(b) It will impact global privacy standards like data protection laws.
(c) It will enforce restrictions on the use of AI companions.
(d) It will prioritize women's rights over technological advancements.

Passage-X

The Kerala High Court in contrast to the general law of India delivered a landmark judgment that deemed marital rape as a valid ground for divorce. In the case at hand, where the appellant forced his sick wife to have sexual intercourse with him, the division bench comprising Justice Kauser Edappagath and Justice A. Muhamed Mustaque opined that “husband’s licentious disposition disregarding autonomy of wife is marital rape”. The bench held that while marital rape is not penalized in India, it would not deter the court from recognizing it as an act of cruelty and granting divorce. They also opined that there is a need for the law to evolve in a manner where human problems are dealt with a humane approach.

Section 375 of the Indian Penal Code (IPC) categorises acts of penetration sans informed consent as rape. However, it categorically mentions in section 375 that sexual intercourse with one’s wife who is over the age of 15 will not constitute the offence of rape. In *Independent Thought v. Union of India* in 2017 delivering a prospective judgment, raised the age of consent from 15 to 18 and the apex court held that irrespective of her marital status, a girl child below 18 years of age is incapable of giving consent for sexual intercourse.

Matrimony has always been considered to be a sacred institution and attempting to make even minimal rational changes to it invites considerable hostility from the public. That is perhaps why the government, to this date, prefers to not mingle with personal laws.

The Justice Verma Committee, set up after the December 2016 Delhi gang rape and murder case to strengthen sexual assault laws, reported that the relationship between the victim and the offender is immaterial and focus should solely be maintained on the consent. In 2015, Member of Parliament Kanimozhii questioned the government on the floor of Rajya Sabha whether they planned on discontinuing the exception given to married men in Section 375 of the IPC. The minister of state for home affairs, Haribhai Parathibhai Chaudhary, responded that the government has no such intentions since it believes in protecting the sacred institution of marriage. The minister also cited poverty, illiteracy and current social customs as reasons for continuing with the exception.

If the legislatures aren’t accepting the concept of marital rape, it doesn’t mean that wives are not being raped by their husbands. They themselves are victims of the ideology of “women being men’s chattel”, which has denied women the opportunity to perceive their own sexual victimization. It is about time we honor our women and their right to bodily autonomy, said the Kerala High Court.

Source: Extracted (with edits and revision) An excerpt from article titled ‘Consent During Sex Should Always Be Legally Essential – Marriage or No Marriage’, published at The Wire.

Section: A – English

109. Why did the Kerala High Court grant divorce in the case involving marital rape?

- (a) Because they believed the husband’s behavior constituted a criminal offence.
- (b) Because they wanted to set an example for penalizing marital rape in India.
- (c) Because they considered marital rape an act of cruelty, even though not penalized in India.
- (d) Because they wanted to discourage future cases of marital rape.

110. Which of the following can be established based on the last paragraph of the passage?

- (a) Courts are failing to recognize marital rape as a problem.
- (b) Women often don’t realize they are victims of sexual victimization in marriage.
- (c) The concept of women as property needs to be challenged.
- (d) Men’s’ rights in marriage should be protected.

111. Which of the following could be a potential solution to the issue discussed in the passage?

- (a) Implementing stricter penalties for marital rape.
- (b) Providing the education and awareness programs on consent.
- (c) Increasing the legal age of marriage for women.
- (d) Allowing husband’s complete control over their wives autonomy.

112. Which of the following can be logically deduced from the passage?

- (a) The Kerala High Court's judgment on marital rape is an alignment with Indian government stance.
- (b) The Justice Verma committee recommended discontinuing the exception for married men in Section 375 of the IPC.
- (c) Marital rape is exceptionally penalized under Indian law.
- (d) The Indian Government has actively pursued legal changes to address marital rape.

113. In the context of Kerala High Court's judgment on marital rape, which statement reflects the Indian Government's stance for exception of married men in section 375 of IPC?

- (a) The government intends to discontinue the exception for married men.
- (b) The government believes in protecting sacred institution of marriage and will maintain the exception.
- (c) The government plans to review the exception but has not made a final decision.
- (d) None of the above

Section: B – Logical Reasoning

114. Vidhi and Vidhaan are a married couple for the past 20 years. They are watching the news update of the judgment pronounced by the Kerala High Court deeming marital rape as a valid ground for divorce. Vidhaan looks at the decision with great approval and says that a major development in man-woman relationships has taken place because of the judgment. Vidhi does not find the decision to be progressive and says that the decision can be misused by people with ulterior motives. Which of the following statements would be an additional argument that Vidhi can make?

- (a) Marital rape will reduce in practice once it is expressly outlawed.
- (b) The government will refrain from interfering in the personal laws as marriage is considered a sacred institution.
- (c) The practice of marital rape is hard to prove in a court of law.
- (d) All of the above.

115. Suppose in the above question, Vidhi notes that the lacunae in law is primarily because the Government chooses to avoid mingling with personal laws involving marriage. Which of the following options would best highlight this observation?

- (a) Government will not interfere in the personal laws as it does not have the authority to oppose personal autonomy.
- (b) Section 375, IPC does not create a lacunae by categorically making marital rape an exclusion.
- (c) Government is staying away from personal laws looking into the present societal context, poverty and illiteracy.
- (d) None of the above.

116. Vidhi, aged 16, married Vidhan, aged 21, in 2016. On the first night of marriage Vidhan had sexual intercourse with Vidhi without her consent. Vidhi's father seeing his daughter's condition filed the case of rape against Vidhan on behalf of Vidhi. Would Vidhi succeed in her case against Vidhan?

- (a) Yes, because the Supreme Court judgment will apply in her case. Hence covering her in the main provision of section 375 of IPC and not under exception.
- (b) No, because Vidhi is of the age which grants Vidhan the immunity under the exception provided under section 375 of IPC to the husband.
- (c) Yes, because the sexual intercourse between Vidhi and Vidhan was without the consent of Vidhi.
- (d) No, because the case was filed by Vidhi's father and not by herself.

117. Vidhi and her younger sister are having discussion on the recently passed Kerala High Court judgement making marital rape as a ground for divorce. Vidhi is trying to advise her sister on good practices to maintain in order to have friendly relations with people. She is trying to put into perspective the judgment of the Kerala High Court for her sister to get a better understanding of the real world. Which of the following statements should Vidhi inform her sister?

- (a) Women below the age of 18 years are considered incapable of giving consent for sexual intercourse.
 (b) Section 375, IPC specifically excludes liability for intercourse with wife who is aged above 18 years.
 (c) The State will not be favourable towards changing the law related to marital rape owing to public hostility.
 (d) All of the above.

118. Which of the following statements would buttress the argument for implementing a law which removes the exclusion of husband under Section 375, IPC?

- (a) Legislatures not recognizing marital rape does not mean that the practice does not take place.
 (b) Perspective of patriarchal society in which women are considered men's chattel must be changed.
 (c) Both (a) and (b).
 (d) None of the above.

119. Which of the following sentences is grammatically incorrect?

- (a) The Kerala High Court in contrast to the general law of India delivered a landmark judgment that deemed marital rape as a valid ground for divorce.
 (b) They also opined that there is a need for the law to evolve in a manner where human problems are dealt with a humane approach.
 (c) Matrimony has always been considered to be a sacred institution and attempting to make even minimal rational changes to it invites considerable hostility from the public.
 (d) The minister also cited poverty, illiteracy and current social customs as reasons for continuing with the exception.

120. Classify the following sentences as Fact, Inference and Judgement.

- (i) The bench held that while marital rape is not penalized in India, it would not deter the court from recognizing it as an act of cruelty and granting divorce.
 (ii) Matrimony has always been considered to be a sacred institution and attempting to make even minimal rational changes to it invites considerable hostility from the public.
 (iii) It is about time we honour our women and their right to bodily autonomy, said the Kerala High Court.
 (iv) That is perhaps why the government, to this date, prefers to not mingle with personal laws.
- (a) JIIJ (b) FIII (c) FIJJ (d) FIJI

Current Affairs with GK

121. Which city topped the 'Swachh Vayu Sarvekshan 2023 Clean Air Survey'?

- (a) Indore (b) Kochi (c) Panjim (d) Mysuru

122. With whom has India launched a 'Joint Capacity-Building Initiative'?

- (a) ASEAN (b) United Nations (c) World Bank (d) SAARC

123. Which country will host the first edition of the Global India AI 2023 conference?

- (a) India (b) Germany (c) Japan (d) France

124. What is the name given to India's first AI-powered anti-drone system?

- (a) Indrajal (b) Chetak (c) Prakhar (d) Gaganyaan

125. Which Indian tennis player won the runners trophy in the US Open doubles final?

- (a) K Srikanth (b) Rohan Bopanna (c) Chirag Shetty (d) Somdev Devvarman

126. Who has been invited to be the chief guest at India's Republic Day celebrations on January 26, 2024?

- (a) Chinese President Xi Jinping
 (b) U.S. Vice President Kamala Harris
 (c) Australian Prime Minister Anthony Albanese
 (d) U.S. President Joe Biden

127. The Women's Reservation Bill, which was passed by the Rajya Sabha, will reserve what percent of seats in Lok Sabha and assemblies for women?

- (a) 50% (b) 40% (c) 33% (d) 25%

128. In which sport did India win the first gold medal in the Asian Games 2022?

- (a) Shooting (b) Table tennis (c) Cricket (d) swimming

129. The Government of India has recently suspended the visa service for the citizens of which country?

- (a) Pakistan (b) Turkiye (c) Canada (d) Ukraine

130. Which city is the host of Transnational Grid Interconnections for One Sun, One World, One Grid (OSOWOG) Conference?

- (a) Mumbai (b) Gandhi Nagar (c) Bengaluru (d) New Delhi

131. Which country unveiled its first domestically-made submarine, named the Haikun, in September 2023?

- (a) Japan (b) Taiwan (c) China (d) South Korea

132. What was the theme of the ASEAN Summit that Prime Minister Narendra Modi attended in 2023?

- (a) "ASEAN-India Partnership: A Decade of Progress"
 (b) "Asia's Century: Building a Rule-Based World Order"
 (c) "Global South Unite: Addressing Shared Challenges"
 (d) "ASEAN Matters: Epicentrum of Growth"

133. Which NASA rover set the record for the longest Martian navigation without human assistance?

- (a) Perseverance (b) Curiosity (c) Opportunity (d) Spirit

134. The old Parliament building in New Delhi officially renamed as _____?

- (a) Rajya Sabha Bhavan (b) Old Sansad Sadan (c) Lok Sabha Sadan (d) Samvidhan Sadan

135. Who will be honored with the Dadasaheb Phalke Lifetime Achievement Award?

- (a) Dharmendra (b) Rekha (c) Jaya Bachchan (d) Waheeda Rehman

136. The Chausath Yogini temple, which was seen in the news, is located in which state/UT?

- (a) Gujarat (b) Bihar (c) Rajasthan (d) Madhya Pradesh

137. Recently India has decided to join Agriculture Innovation Mission for Climate (AIM4C). Which two countries has launched AIM4C in 2021?

- (a) USA and UK (b) France and UK (c) USA and UAE (d) UK and UAE

138. Which state government has approved the gender-inclusive tourism policy 'Aai'?

- (a) Sikkim (b) Maharashtra (c) Odisha (d) Manipur

139. Which institution released the 'Gender Gap Report 2023'?

- (a) ADB (b) World Bank
 (c) NITI Aayog (d) World Economic Forum

140. Which Egypt's highest state honor was conferred upon Prime Minister Narendra Modi by President Sisi during his visit to Egypt?

- (a) Order of the Pharaoh (b) Order of Excellence
 (c) Order of Merit (d) Order of the Nile

141. Where is the UNESCO Headquarters located?

- (a) Paris, France (b) New York, USA (c) Geneva, Switzerland (d) London, UK

142. 'National Space Mission for Earth Observation' is associated with which country?

- (a) USA (b) Russia (c) Australia (d) India

143. Which player won the men's title of Wimbledon Grand Slam 2023?

- (a) Daniil Medvedev (b) Rafael Nadal (c) Carlos Alcaraz (d) Novak Djokovic

- 144.** Which is the most peaceful country in the world according to the Global Peace Index 2023?
(a) New Zealand (b) Denmark (c) Iceland (d) Ireland
- 145.** In which state/UT was the Elephant Conservation Network (ECN) recently formed?
(a) Kerala (b) Assam (c) Puducherry (d) Delhi
- 146.** Which team has won the Women's Premier League 2023 title?
(a) Mumbai Indians (b) Royal Challengers Bangalore
(c) UP Warriors (d) Delhi Capitals
- 147.** In which country are the Kermadec Islands located?
(a) New Zealand (b) France (c) Fiji (d) Switzerland
- 148.** Which of the following is not the unit of Energy?
(a) Calorie (b) Watt (c) Erg (d) Joule
- 149.** Which of the following organelle is called the “suicidal bags” of the cell?
(a) Cytoplasm (b) Lysosomes (c) Mitochondria (d) Endoplasmic reticulum
- 150.** Which of the following is the softest metal?
(a) Cesium (b) Lead (c) Gold (d) Silver

ANSWERS & EXPLANATION

1. Ans. c

Sol. Option (c) is correct because the Grand Atrium Tower being referred to as a 'monument of progress' is a metaphorical expression. It does not suggest that the Tower is an actual monument in the traditional sense, but rather that it symbolizes or represents progress, innovation, and ambition of the city. Option (a) is incorrect because the passage refers to the Grand Atrium Tower project as a 'live case study' in a literal sense, since it is being studied by business schools and management experts. Option (b) is incorrect because it is a factual statement about ProBuild's operational efficiency. It's not used as a metaphor or symbolic representation of something else. Option (d) is incorrect because it is a factual statement about MasterMakers using the latest technology in their work. This is not used metaphorically, but denotes the company's approach towards innovation. Hence (c).

2. Ans. a

Sol. Option (a) is correct because it encapsulates the various themes discussed in the passage - the innovation of MasterMakers, the efficiency of ProBuild, the quality of QuickCon, and the collaborative nature of the project. It provides closure by summarizing the significance of the Grand Atrium Tower as a symbol of progress, innovation, and efficiency. Option (b) is incorrect because the passage focuses more on the process and significance of the project rather than the financial gains. Option (c) is incorrect because the text clearly highlights the complexity of the task, the intricate planning, and the strategic collaboration required for the project. Hence, suggesting that the construction was an 'easy task' contradicts the information presented in the passage. Option (d) is incorrect because it doesn't provide a meaningful conclusion in line with the themes of the text. The future endeavors of the companies are not discussed in the passage and do not contribute to a fitting conclusion.

3. Ans. a

Sol. Option (a) is correct because the passage states that just as ProBuild is recognized for its time efficiency, QuickCon prides itself on the precision and quality of its work. Option (b) is incorrect because the passage doesn't associate MasterMakers with financial success. Instead, it highlights their focus on technological advancements and innovative approaches. Option (c) is incorrect because the passage points out that QuickCon generally takes longer to complete tasks than ProBuild due to their focus on quality, implying that rapid construction isn't their main strength. Option (d) is incorrect because MasterMakers is not known for time efficiency, according to the passage. In fact, they are said to be markedly slower than ProBuild, as they prioritize incorporating the latest technology over speed. Hence (a).

4. Ans. a

Sol. Option (a) is correct because 'helmed' in the context of the sentence implies that the project was directed or managed by the three leading construction firms. Option (b) is incorrect because although the three firms were involved in the project, the passage does not indicate that they 'owned' it. The project was paid for by the city government, implying that it is the ownership of the city rather than the construction firms. Option (c) is incorrect because the passage specifies that the project was financed by the city government, not the three construction firms. Hence, 'helmed' does not mean 'financed' in this context. Option (d) is incorrect because 'helmed' does not mean 'criticized'. There's no indication in the passage that the three construction firms criticized the project. Hence (a)

5. Ans. c

Sol. Option (c) is correct because it provides a holistic introduction to the main themes of the text, namely the Grand Atrium Tower as a project that embodies innovation (MasterMakers), quality (QuickCon), and efficiency (ProBuild). Option (a) is incorrect because the passage doesn't state that the Grand Atrium Tower was built in a small town. The text identifies it as being located in a bustling metropolis. Option (b) is incorrect because, although the text discusses the

roles of ProBuild, QuickCon, and MasterMakers, it is not merely a 'story' about these firms, but rather about the complex dynamics of their collaboration in constructing the Grand Atrium Tower. Option (d) is incorrect as it doesn't encompass the specific focus of the text, which is not just about the construction industry at large but specifically about the Grand Atrium Tower project and the roles of the three construction firms involved. Hence (c).

SECTION B – LOGICAL REASONING

6. Ans. a

Sol. option (a) is correct because ProBuild completes work in 10 days and QuickCon in 12 days. Therefore, ProBuild's one-day work is $1/10$ and QuickCon's one-day work is $1/12$. Their combined one-day work when they work together would be $1/10 + 1/12 = 11/60$. Hence, in 4 days, they would complete $4 \times (11/60) = 44/60 = 4/15$ of the work. Hence, (a).

7. Ans. d

Sol. Option (d) is correct because, as per the passage, MasterMakers takes 30 days to complete the work that ProBuild can in 10 days. So, they work at one-third the speed of ProBuild. Given that ProBuild and QuickCon together (with their combined work rate of $1/10 + 1/12 = 11/60$ per day) finish the job in 4 days, the remaining work done by MasterMakers indicates that they could complete the job alone in 15 days. Hence, (d).

Direction (8-11): Read the following information carefully and answer the questions given below.

If ProBuild1, ProBuild2, ProBuild3 and ProBuild4 are four males who are married to four females namely QuickCon1, QuickCon2, QuickCon3 and QuickCon4 not necessarily in the same order. MasterMaker1, MasterMaker2, MasterMaker3, MasterMaker4 and MasterMaker5 are five children who belong to these four couples. ProBuild2 is married to QuickCon4, who does not have any child. MasterMaker1 is the only son of QuickCon2, who is not married to ProBuild1. MasterMaker2 and MasterMaker3 are siblings and are of different genders. ProBuild3 is the father of two children. MasterMaker4 is the daughter of QuickCon3, who does not have any other child. ProBuild1 has one daughter MasterMaker3. MasterMaker5 is the sister of MasterMaker1.

8. Ans. b

Sol. COMMON EXPLANATION,

Couples		Child	
Husband	Wife	Boy	Girl
ProBuild2	QuickCon4	-	-
ProBuild3	QuickCon2	MasterMaker1	MasterMaker5
ProBuild1	QuickCon1	MasterMaker2	MasterMaker3
ProBuild4	QuickCon3	-	MasterMaker4

There are two boys in the group of children. Hence, (b).

9. Ans. c

Sol. Following the COMMON EXPLANATION,
ProBuild3 is the father of MasterMaker5. Hence, (c).

10. Ans. a

Sol. Following the COMMON EXPLANATION,
ProBuild1-QuickCon1 is a couple. Hence, (a).

11. Ans. d

Sol. Following the COMMON EXPLANATION,
 All of the above given options only MasterMaker2 is male. Hence, (d).

12. Ans. c

Sol. Option (c) is correct because in the time period of 12 days, QuickCon could build what ProBuild constructed in 10 days and MasterMakers were needing 30 days to complete what ProBuild could in 10 days. So, Mastermakers finish task last. Hence, (c).

13. Ans. c

Sol. Option (c) is correct because the author presents the viewpoints of Dr. Eleanor Thompson, Dr. Samuel Johnson, and Dr. Emily Williams without taking a specific stance on faculty recruitment. Option (a) is incorrect because the author does not express a personal belief that only candidates with a Master's degree in Mathematics should be considered. The author is presenting Dr. Eleanor Thompson's viewpoint on this matter. Option (b) is incorrect because the author does not suggest that the department should focus on hiring candidates with extensive industry experience. This is Dr. Emily Williams' viewpoint, which the author presents. Option (d) is incorrect because the author does not express strong agreement with Dr. Eleanor Thompson's criteria. The author is presenting multiple viewpoints on faculty recruitment. Hence (c).

14. Ans. b

Sol. Option (b) is correct because the passage mentions that Dr. Samuel Johnson has concerns about the "stringent criteria," which implies that the criteria are strict or severe. Option (a) is incorrect because the passage states that Dr. Samuel Johnson has expressed concerns about the "stringent criteria," implying that the criteria are not flexible but rather strict. Option (c) is incorrect because the passage states that Dr. Samuel Johnson has concerns about the "stringent criteria," suggesting that the criteria are not inclusive but rather strict. Option (d) is incorrect because the passage states that Dr. Samuel Johnson has concerns about the "stringent criteria," which implies that the criteria are important enough to be a point of concern, not unimportant.

15. Ans. (b)

Sol. Option (b) is correct because the word "Renowned" in the passage is used to describe the Department of Mathematics as being well-known for its rigorous academic programs. Option (a) is incorrect because the word "Rigorous" in the passage refers to the strict or severe nature of the academic programs, not to being well-known. Option (c) is incorrect because the word "Conundrum" refers to a confusing or difficult problem, not to being well-known. Option (d) is incorrect because the word "Probation" refers to a trial period, not to being well-known. Hence (b).

16. Ans. c

Sol. Option (c) is correct because the passage states that the outcome of the meeting will have a "lasting impact on the future of the Department of Mathematics," implying that it will determine the long-term success or failure of the department. Option (a) is incorrect because the passage states that the outcome will have a "lasting impact," which contradicts the idea of a temporary effect. Option (b) is incorrect because the passage explicitly states that the outcome will have a "lasting impact," which means it will have a significant impact. Option (d) is incorrect because the passage states that the impact will be "lasting," which contradicts the idea that it will only affect the current academic year. Hence (b).

17. Ans. b

Sol. Option (b) is correct because the passage states that Dr. Eleanor Thompson attributes the decline in student enrollment to the lack of experienced faculty members who can both engage students and conduct groundbreaking research. This implies an assumption that the current faculty lacks these qualities. Option (a) is incorrect because the passage states that one of the criteria set by Dr. Eleanor Thompson is that candidates should be willing to undergo a one-year

probation period. It does not state that current faculty members are unwilling to do so. Option (c) is incorrect because the passage does not make any assumptions about the age of the current faculty affecting their effectiveness. Option (d) is incorrect because the passage states that one of the criteria for new hires is to have at least three published papers in reputed journals. It does not state that the current faculty has not published enough research papers. Hence (b).

18. Ans. b

Sol. Option (b) is correct because the passage states that Dr. Eleanor Thompson has emphasized the importance of soft skills such as communication, teamwork, and adaptability. Option (a) is incorrect because the passage states that Dr. Eleanor Thompson has emphasized the importance of soft skills such as communication, teamwork, and adaptability. Option (c) is incorrect because the passage states that Dr. Eleanor Thompson has set a one-year probation period as a criterion for new hires, but it does not mention that this is for assessing soft skills. Option (d) is incorrect because the passage clearly states that Dr. Eleanor Thompson has emphasized the importance of soft skills. Hence (b).

19. Ans. b

Sol. Option (b) is correct because the passage states that Dr. Eleanor Thompson attributes the decline in student enrollment to the lack of experienced faculty members who can both engage students and conduct groundbreaking research. Option (a) is incorrect because the passage states that Dr. Eleanor Thompson attributes the decline in student enrollment to the lack of experienced faculty members, not to insufficient student participation in research projects. Option (c) is incorrect because the passage states that Dr. Eleanor Thompson has set a one-year probation period as a criterion for new hires, but it does not mention that current faculty members are unwilling to undergo this period. Option (d) is incorrect because the passage states that the age criterion set by Dr. Eleanor Thompson for new hires should not exceed 40 years; it does not mention that the current faculty's age exceeds this limit. Hence (b).

20. Ans. b

Sol. Option (b) is correct. The passage states that Dr. Samuel Johnson argues that the department should also consider candidates with interdisciplinary backgrounds, such as Applied Mathematics, Statistics, or even Physics. Option (a) is incorrect as the passage states that it is Dr. Emily Williams who suggests that the department should focus on candidates with extensive industry experience, not Dr. Samuel Johnson. Option (c) is incorrect because it is Dr. Eleanor Thompson who has set the criterion of having at least three published papers, not Dr. Samuel Johnson. Option (d) is incorrect because the passage states that Dr. Eleanor Thompson emphasizes the importance of soft skills like communication and teamwork, not Dr. Samuel Johnson. Hence (b).

21. Ans. c

Sol. Option (c) is correct. The passage states that Dr. Emily Williams proposes that the department should collaborate with tech companies to offer internships and research opportunities to students, thereby making the program more appealing. Option (a) is incorrect because the passage states that Dr. Eleanor Thompson has set the criterion of having at least a Master's degree in Mathematics with a minimum of 70% marks, not Dr. Emily Williams. Option (b) is incorrect because the passage states that the selection committee has decided to conduct a series of interviews and group discussions, but it does not attribute this idea to Dr. Emily Williams. Option (d) is incorrect because the passage states that some faculty members agree with Dr. Eleanor Thompson's criteria of hiring experienced educators to uphold the department's academic standards, not Dr. Emily Williams. Hence (c).

22. Ans. d

Sol. Option (d) is correct because the passage states that the faculty members are divided in their opinions regarding the guidelines established for the selection of new faculty members.

Some agree with Dr. Eleanor Thompson's criteria, while others side with Dr. Samuel Johnson or Dr. Emily Williams, advocating for a more flexible approach. Option (a) is incorrect because the passage does not mention that the age limit set for new hires is a subject of disagreement among the faculty members. Option (b) is incorrect because the passage states that Dr. Emily Williams suggests focusing on candidates with extensive industry experience, but it does not indicate that this is a subject of disagreement among the faculty members. Option (c) is incorrect because the passage states that Dr. Eleanor Thompson emphasizes the importance of soft skills, but it does not indicate that this is a subject of disagreement among the faculty members. Hence (d).

23. Ans. c

Sol. Option (c) is correct because the passage states that to assess soft skills, the selection committee has decided to conduct a series of interviews and group discussions in addition to the usual written tests and presentations. Option (a) is incorrect because the passage states that candidates should be willing to undergo a one-year probation period as set by Dr. Eleanor Thompson, but it does not mention that this is for assessing soft skills. Option (b) is incorrect because the passage states that having at least three published papers is a criterion set by Dr. Eleanor Thompson, but it does not mention that this is for assessing soft skills. Option D is incorrect because the passage states that the age criterion set by Dr. Eleanor Thompson for new hires should not exceed 40 years, but it does not mention that this is for assessing soft skills. Hence (c).

24. Ans. b

Sol. Option (b) is correct because the passage states that Dr. Samuel Johnson suggests that the department should be open to hiring candidates who are younger but show exceptional promise in their academic pursuits. Option (a) is incorrect because the passage states that Dr. Eleanor Thompson has set specific criteria including age and experience, but does not mention that she is open to hiring younger candidates who show exceptional promise. Option (c) is incorrect because the passage states that Dr. Emily Williams focuses on candidates with extensive industry experience, but does not mention that she is open to hiring younger candidates who show exceptional promise. Option (d) is incorrect because the passage states that the faculty members are divided in their opinions regarding the criteria set for the selection of new faculty members, but it does not specify that the selection committee is open to hiring younger candidates who show exceptional promise. Hence (b).

25. Ans. c

Sol: Option (c) is correct because the passage states that "The lack of explainability in these algorithms can make it challenging for healthcare professionals to understand the reasoning behind a diagnosis, thereby affecting the quality of patient care." This directly addresses the criticism that AI algorithms in healthcare lack explainability. Option (a) is incorrect because the passage states that there is a "lack of transparency" in AI algorithms, particularly in the context of data privacy. It does not suggest that AI algorithms in healthcare are too transparent. Option (b) is incorrect because the passage explicitly mentions that AI algorithms in healthcare "are not infallible." Therefore, the notion that they may lead to overconfidence is not a criticism presented in the passage. Option (d) is incorrect because the passage does not claim that AI algorithms are fully capable of replacing human doctors in all aspects. It only states that they can analyze medical data more quickly and accurately in some instances. Hence, (c) is correct.

26. Ans: (b)

Sol: Option (b) is correct because the passage states that algorithmic bias leads to concerns about racial profiling and discrimination, while the use of AI in autonomous weapons systems raises questions about accountability and the ethics of delegating life-and-death decisions to machines. Both issues fundamentally raise questions about accountability and ethical decision-making. Option (a) is incorrect because the passage mentions data privacy as a separate concern, not directly related to either algorithmic bias or the use of AI in autonomous weapons

systems. Option (c) is incorrect because the passage outlines multiple ethical concerns for both algorithmic bias and the use of AI in autonomous weapons systems, indicating that they are not seen as unequivocally beneficial. Option (d) is incorrect because the passage clearly states that these are pressing ethical issues that society must grapple with, implying that they have not been fully resolved. Hence, (b) is correct. Hence (b).

27. Ans: (b)

Sol: Option (b) is correct because the passage aims to inform and explain the various ethical concerns surrounding the use of AI in different sectors like healthcare, transportation, and finance. It provides detailed information on issues like algorithmic bias, autonomous weapons systems, data privacy, job displacement, and healthcare. Option (a) is incorrect because the passage does not mock the shortcomings of AI technology; rather, it discusses them seriously. Option (c) is incorrect because the passage does not tell a story about the development of AI. It focuses on outlining the ethical considerations associated with AI's use. Option (d) is incorrect because the passage does not aim to persuade the reader to take a specific stance on AI ethics. It aims to inform and explain the ethical concerns. Hence, (b) is correct.

28. Ans: (c)

Sol: Option (c) is correct because the passage states that the absence of human judgment in AI-controlled drones and robots "can lead to unintended consequences, such as civilian casualties." This negates the opinion that these systems can potentially reduce human casualties, as they may actually increase risks. Option (a) is incorrect because the passage does not suggest that AI-controlled drones and robots are designed to increase human casualties. It raises questions about their ethical implications. Option (b) is incorrect because the passage does suggest that AI-controlled drones and robots have the potential to affect human casualties, although it raises ethical concerns about how they might do so. Option (d) is incorrect because the passage does not discuss the effectiveness or malfunctioning of AI-controlled drones and robots in conflict zones. It focuses on the ethical implications. Hence, (c) is correct.

29. Ans: (b)

Sol: Option (b) is correct because the passage states that the rapid advancements in AI technology have "raised a plethora of ethical concerns." The word "plethora" means an abundance or excess of something, which in this context refers to ethical concerns. Option (a) is incorrect because "plethora" does not mean scarcity; it means the opposite, which is an abundance. Option (c) is incorrect because "plethora" does not imply simplicity. It refers to a large amount of something, not its complexity or simplicity. Option (d) is incorrect because the passage clearly states that these ethical concerns are pressing issues, making them relevant rather than irrelevant. Hence, (b) is correct.

30. Ans: (c)

Sol: Option (c) is correct because the passage states that ethical dilemmas around the use of AI in autonomous weapons systems challenge the principles of just war theory, which emphasizes proportionality and discrimination in the use of force. Option (a) is incorrect because the passage states that algorithmic bias leads to concerns about racial profiling and discrimination, but it does not mention the principles of just war theory in this context. Option (b) is incorrect because the passage states that data privacy issues arise due to the lack of transparency in machine learning algorithms, but it does not relate this to just war theory. Option (d) is incorrect because the passage states that job displacement due to automation is a growing concern, but it does not associate this with the principles of just war theory. Hence (c) is correct.

31. Ans: (b)

Sol: Option (b) is correct because the passage states that the lack of explainability in healthcare-related AI algorithms can make it challenging for healthcare professionals to understand the reasoning behind a diagnosis, thereby affecting the quality of patient care. Option (a) is incorrect

because the passage states that while AI algorithms can be more efficient in some cases, they are not infallible. Option (c) is incorrect because the passage states that machine learning algorithms are used for targeted advertising by companies, but it does not specify that this is the case in the healthcare sector. Option (d) is incorrect because the passage explicitly mentions that the ethical implications of AI extend to the realm of healthcare, thereby suggesting that it is not universally accepted without ethical considerations. Hence (b) is correct.

32. Ans: (c)

Sol: Option (c) is correct because it encapsulates both premises by stating that ethical concerns about AI are multifaceted, ranging from algorithmic bias to the use of AI in autonomous weapons systems. This aligns closely with the ethical concerns raised in the passage. Option (a) is incorrect because the passage states that ethical concerns are not limited to data privacy and job displacement; it also mentions algorithmic bias and the use of AI in autonomous weapons. Option (b) is incorrect because the passage does not focus primarily on healthcare diagnostics; it also discusses other ethical concerns like algorithmic bias and autonomous weapons. Option (d) is incorrect because the passage does not limit ethical concerns to job displacement; it mentions a range of issues including algorithmic bias and the use of AI in autonomous weapons systems. Hence (c).

33. Ans: (a)

Sol: Option (a) is correct because both the assertion and the reason are true, and the reason correctly explains the assertion. The assertion states that the ethical implications of AI are complex and involve a range of issues, which is supported by the passage. The reason suggests that ongoing dialogue is crucial for addressing these ethical challenges, which is also a point made in the passage's conclusion. Option (b) is incorrect because the reason is actually the correct explanation of the assertion. Option (c) is incorrect because both the assertion and the reason are true. Option (d) is incorrect because both the assertion and the reason are true, not false. Hence (a) is correct.

34. Ans: (c)

Sol: Option (c) is correct because the passage states that the increasing reliance on big data analytics for personalized services has led to the collection of vast amounts of personal information, raising concerns about informed consent and the potential for misuse of sensitive information. Option (a) is incorrect because the passage states that big data analytics are used for personalized services and targeted advertising, but it does not specify that they are primarily used for healthcare diagnostics. Option (b) is incorrect because the passage does not claim that big data analytics are infallible; rather, it raises ethical concerns about their use. Option (d) is incorrect because the passage explicitly mentions that there are ethical concerns related to the use of big data analytics, thereby suggesting that they are not universally accepted without ethical considerations. Hence (c) is correct.

35. Ans: (c)

Sol: Option (c) is correct because it accurately reflects both premises by stating that AI's efficiency and accuracy can lead to job displacement, posing a threat to human labor. This aligns closely with the concerns raised in the passage. Option (a) is incorrect because the passage states that while AI can be more efficient and accurate, it also poses a threat to human labor, contradicting the idea that it is universally beneficial. Option (b) is incorrect because the passage does not limit the detrimental effects of AI's efficiency to only the healthcare sector; it mentions various industries. Option (d) is incorrect because the passage does not limit the benefits of AI's efficiency to autonomous weapons systems; it mentions various applications including healthcare and personalized services. Hence (c) is correct.

36. Ans: (b)

Sol: Option (b) is correct because both the assertion and the reason are true, but the reason is not the correct explanation of the assertion. The assertion correctly states that the ethical concerns surrounding AI are multifaceted and complex, which is supported by the passage. However, the reason talks about the sectors AI has revolutionized, which doesn't directly explain why the ethical concerns are multifaceted and complex. Option (a) is incorrect because the reason is not the correct explanation of the assertion. Option (c) is incorrect because both the assertion and the reason are true. Option (d) is incorrect because both the assertion and the reason are true, not false. Hence (b) is correct.

37. Ans: (c)

Sol: Option (c) is correct because the passage portrays Verityville as an idyllic setting where intellectual pursuits, scholarly debates, and the quest for wisdom are highly valued. The town is described as evolving but committed to the pursuit of knowledge, embodying the Latin phrase "Sapere Aude" – Dare to Know. This aligns closely with the utopian narrative, which often depicts an ideal society. Option (a) is incorrect because the passage does not describe Verityville as a place with a flawed or oppressive system, which is characteristic of a dystopian narrative. Option (b) is incorrect because the passage does not focus on the moral or psychological growth of a protagonist, which is a key element of a Bildungsroman. Option (d) is incorrect because the passage does not describe a series of loosely connected adventures or episodes, which is typical of a picaresque narrative. Hence, (c) is correct.

38. Ans: (d)

Sol: Option (d) is correct because the passage states that Ms. Eleanor has an "uncanny ability to recommend the perfect book for any query," which she attributes to her "Bibliographic Intuition." This skill is like having "an ace up her sleeve," an idiomatic expression that means having a hidden advantage or resource. Option (a) is incorrect because "A wolf in sheep's clothing" implies deceit or hidden malevolence, which is not suggested in the passage regarding Ms. Eleanor. Option (b) is incorrect because "A penny for your thoughts" is an idiom that invites someone to share what they are thinking, but it doesn't capture the essence of Ms. Eleanor's specialized skill. Option (c) is incorrect because "The ball is in your court" implies that it's someone else's turn to take action or make a decision. This doesn't relate to Ms. Eleanor's ability to recommend books effectively. Hence, (d) is correct.

39. Ans: (c)

Sol: Option (c) is correct because the passage states that Ms. Eleanor is a "bibliophile," which means someone who loves books. "Philanthrope," on the other hand, refers to someone who likes or trusts people. These two words are not synonyms. Option (a) is incorrect because the passage describes Professor Alistair as a "polymath," which is similar in meaning to a "jack-of-all-trades," both indicating a person skilled in multiple areas. Option (b) is incorrect because the passage refers to Professor Alistair as a "connoisseur of classical literature" and an "aficionado of fine arts," both terms indicating a person with expert knowledge or training, especially in the fine arts. Option (d) is incorrect because the passage describes Elara as a "prodigious mathematician," and "prodigious" and "exceptional" are synonyms, both indicating something extraordinary or remarkable. Hence, (c) is correct.

40. Ans: (d)

Sol: Option (d) is correct because the passage states that Professor Alistair is a polymath and a connoisseur of various fields, implying that he is a repository of diverse knowledge. The "Verityville Codex" is described as an ancient manuscript believed to contain the secrets of the universe, making it another repository of universal knowledge. Option (a) is incorrect because while rumors abound that the Codex has mystical powers, Professor Alistair is described as a staunch rationalist who dismisses such claims as superstitions. Option (b) is incorrect because the passage states that the Codex is accessible only to a select few, but it does not indicate that Professor Alistair's knowledge is similarly restricted. Option (c) is incorrect because only

Professor Alistair is described as dismissing claims of superstition, not the Verityville Codex. Hence, (d) is correct.

41. Ans: (b)

Sol: Option (b) is correct because the passage describes Verityville as a town committed to intellectual pursuits and the quest for wisdom, even as it evolves and welcomes technology companies. The line "And so, the wheel of time turns, but Verityville remains a constant, unchanging in its core values," captures this essence by suggesting that despite changes, the town's core values remain constant. Option (a) is incorrect because the passage does not describe Verityville as a paradox or a blend of contradictions that defies understanding. It portrays the town as harmoniously blending the old and the new. Option (c) is incorrect because, although it captures the idea of change and constancy, it doesn't specifically highlight the town's commitment to intellectual pursuits and wisdom, which are central themes in the passage. Option (d) is incorrect because the passage describes the quest for wisdom in Verityville as "timeless," contradicting the idea that it is "as ephemeral as the morning dew." Hence, (b) is correct.

42. Ans: (b)

Sol: Option (b) is correct because the passage states that the main focus of the annual "Festival of Wisdom" is the "Symposium of the Sages," a panel discussion featuring the brightest minds in various fields, moderated by Professor Alistair. This information is provided in Statement II, making it sufficient to answer the question about the main focus of the festival. Option (a) is incorrect because Statement I only provides information about when the festival is organized and who it attracts, but it does not specify the main focus of the festival. Option (c) is incorrect because Statement I alone is not sufficient to answer the question about the main focus of the festival. Option (d) is incorrect because Statement II alone is sufficient to answer the question, making this choice incorrect. Hence, (b) is correct.

43. Ans: (b)

Sol: Option (b) is correct because the passage states that Ms. Eleanor manages the Verityville Library and has an encyclopedic knowledge of literature. This information is provided in Statement II, making it sufficient to answer the question about Ms. Eleanor's main role in Verityville. Option (a) is incorrect because Statement I only provides information about Ms. Eleanor being a close friend of Professor Alistair and collaborating with him on research projects, but it does not specify her main role in Verityville. Option (c) is incorrect because Statement I alone is not sufficient to answer the question about Ms. Eleanor's main role in Verityville. Option (d) is incorrect because Statement II alone is sufficient to answer the question, making this choice incorrect. Hence, (b) is correct.

44. Ans: (b)

Sol: Option (b) is correct because the passage states that the main activity during Professor Alistair's "Salon of Ideas" is fervent discussions on various topics like existentialism, geopolitics, and quantum mechanics. This information is provided in Statement II, making it sufficient to answer the question about the main activity that takes place during the salon. Option (a) is incorrect because Statement I only provides information about when the "Salon of Ideas" is hosted and who gathers there, but it does not specify the main activity that takes place. Option (c) is incorrect because Statement II alone is sufficient to answer the question, making this choice incorrect. Option (d) is incorrect because Statement II alone is sufficient to answer the question, making it unnecessary to consider both statements together. Hence, (b) is correct.

45. Ans: (b)

Sol: Option (b) is correct because the passage states that technology companies are attracted to Verityville due to its educated workforce and intellectual climate. This information is provided in Statement II, making it sufficient to answer the question about the main reason technology

companies are attracted to the town. Option (a) is incorrect because Statement I only provides information about Verityville being renowned for intellectual pursuits and scholarly debates, but it does not specify the main reason technology companies are attracted to the town. Option (c) is incorrect because Statement II alone is sufficient to answer the question, making this choice incorrect. Option (d) is incorrect because Statement II alone is sufficient to answer the question, making it unnecessary to consider both statements together. Hence, (b) is correct.

46. Ans. d

Sol. Total number of persons = old position of Alistair + new position of Elara – 1 = 12 + 20 – 1 = 31, Hence, (d).

47. Ans. d

Sol. According to the information given in the question, the order of books in ascending manner regarding to the pages is Mathematics < Science < English < Computer < Sanskrit < Hindi. Therefore, four books contain more pages than science book. Hence, (d).

48. Ans: (c)

Sol: Option (c) is correct because the passage states that Elara is a prodigious mathematician. This information is provided in Statement II, making it sufficient to answer the question about Elara's main expertise. Option (a) is incorrect because Statement I only provides information about Elara's participation in the "Salon of Ideas" and her ability to challenge seasoned scholars, but it does not specify her main expertise. Option (b) is incorrect because Statement I alone is not sufficient to answer the question about Elara's main expertise. Option (d) is incorrect because Statement II alone is sufficient to answer the question, making this choice incorrect. Hence, (b) is correct.

49. Ans: (c)

Sol: Option (c) is correct because the passage primarily focuses on the discovery of water on the moon, which has far-reaching implications for scientific research and space missions. The passage portrays the moon as a resource-rich entity rather than a barren wasteland, making this option the most suitable introductory line. Option (a) is incorrect because the passage does not focus on poetic musings about the moon but rather its scientific and practical implications. Option (b) is incorrect because the passage does not discuss water scarcity on Earth as a motive for exploring the moon's resources. Option (d) is incorrect because the passage does not focus on the quest for extraterrestrial life but rather on the discovery of water and its implications for future space missions. Hence, (c) is correct.

50. Ans: (c)

Sol: Option (c) is correct because the passage states that the ethical and legal ramifications of exploiting lunar resources are still a matter of international debate. This highlights a potential criticism of the extraction process. Option (a) is incorrect because the passage does not discuss the depletion of other valuable minerals as a consequence of water extraction. Option (b) is incorrect because, although the passage mentions the extreme conditions in the moon's polar craters, it does not state that these conditions make mining operations unfeasible; rather, it says they make operations "difficult." Option (d) is incorrect because the passage argues that having a local source of water would dramatically reduce the logistical and financial burdens of lunar missions, suggesting that the benefits could outweigh the costs. Hence, (c) is correct.

51. Ans: (c)

Sol: Option (c) is correct because the words "invaluable" and "worthless" are antonyms, not synonyms. The passage describes lunar water as a resource that could be "invaluable" for scientific research and practical applications, indicating its high value. Option (a) is incorrect because "reservoirs" and "deposits" can be considered synonyms in the context of the passage. Option (b) is incorrect because "extract" and "remove" are synonyms, both implying the act of

taking something out. Option (d) is incorrect because "ambitious" and "aspiring" are synonyms, both implying a strong desire to achieve something. Hence, (c) is correct.

52. Ans: (c)

Sol: Option (c) is correct because both establishing a "fuel depot" on the moon and the potential for in-situ resource utilization (ISRU) revolve around using lunar resources to enable more ambitious space missions. The passage mentions that lunar water could serve as a fuel source for spacecraft and enable more ambitious missions, and also states that ISRU would dramatically reduce the logistical and financial burdens of lunar missions, making the concept of a permanent lunar base more feasible. Option (a) is incorrect because neither concept involves extracting water from Earth for lunar missions. Option (b) is incorrect because while both concepts aim to reduce logistical challenges, the primary focus of each concept is different. Option (d) is incorrect because the passage does not mention opposition from nations and private entities regarding resource exploitation in the context of these concepts. Hence, (c) is correct.

53. Ans: (b)

Sol: Option (b) is correct because it negates the given opinion by stating that despite the harsh conditions, mining operations in the moon's polar craters are viable and hold great potential. The passage mentions that the extreme conditions in the moon's polar craters make mining operations difficult, not insurmountable. Option (a) is incorrect because the passage does not mention recent technological advancements making mining operations easy. Option (c) is incorrect because the passage explicitly states that the extreme conditions include temperatures that can plummet to minus 150 degrees Fahrenheit. Option (d) is incorrect because the passage states that the extreme conditions in the polar craters pose challenges for mining operations. Hence, (b) is correct.

54. Ans: (d)

Sol: Option (d) is correct because the passage does not mention that lunar water could be used for the discovery of new drugs by simulating molecular structures. This point is unrelated to the potential applications or benefits of lunar water as discussed in the passage. Option (a) is incorrect because the passage states that one of the immediate benefits of discovering lunar water is the potential for in-situ resource utilization, which includes using it as a local source for drinking, hygiene, and potentially agriculture. Option (b) is incorrect because the passage does mention that the discovery of lunar water opens up new questions about our responsibilities and opportunities. Option (c) is incorrect because the passage states that one of the potential applications of lunar water is to establish a "fuel depot" on the moon, which could revolutionize the economics of space travel. Hence (d) is correct.

55. Ans: (c)

Sol: Option (c) is correct because the passage does not mention that ISRU could be applied to lunar water for the discovery of new drugs by simulating molecular structures. This point is unrelated to the potential applications or benefits of lunar water as discussed in the passage. Option (a) is incorrect because the passage states that one of the immediate benefits of discovering lunar water is the potential for in-situ resource utilization, which includes using it as a local source for drinking, hygiene, and potentially agriculture. Option (b) is incorrect because the passage mentions that one of the potential applications of lunar water is to establish a "fuel depot" on the moon, which aligns with the concept of ISRU. Option (d) is incorrect because the passage states that the discovery of lunar water could make the concept of a permanent lunar base more feasible, which is also in line with ISRU. Hence (c) is correct.

56. Ans: (c)

Sol: Option (c) is correct because the passage states that the 1967 Outer Space Treaty is vague on the issue of resource extraction; it does not explicitly allow for the extraction of lunar

resources. Option (a) is incorrect because the passage specifically mentions that the 1967 Outer Space Treaty is vague on the issue of resource extraction. Option (b) is incorrect because the passage states that the ethical and legal ramifications of exploiting lunar resources are still a matter of international debate. Option (d) is incorrect because the passage emphasizes that as nations and private entities vie for a piece of the lunar pie, a robust legal framework will be essential to prevent conflicts and ensure sustainable practices. Hence (c) is correct.

57. Ans: (c)

Sol: Option (c) is correct because the passage does not mention "quantum decoherence" as a challenge in extracting lunar water. This term is unrelated to the challenges discussed in the passage. Option (a) is incorrect because the passage specifically states that extreme conditions in the moon's polar craters make mining operations difficult. Option (b) is incorrect because the passage mentions that temperatures in the moon's polar craters can plummet to minus 150 degrees Fahrenheit, posing a challenge to extraction efforts. Option (d) is incorrect because the passage does discuss the ethical and legal ramifications as challenges in exploiting lunar resources. Hence (c) is correct.

58. Ans: (a)

Sol: Option (a) is correct because the passage states that establishing a "fuel depot" on the moon would enable more ambitious missions, allowing spacecraft to refuel en route to distant destinations like Mars or even beyond. This could revolutionize the economics of space travel. Option (b) is incorrect because, while the passage does mention that lunar water could make a permanent lunar base more feasible, it does not link this directly to its use as a fuel source for spacecraft. Option (c) is incorrect because the passage does not mention that lunar water could be used for the discovery of new drugs by simulating molecular structures. Option (d) is incorrect because, although the passage discusses ethical and legal ramifications, it does not specifically tie these to the use of lunar water as a fuel source. Hence (a) is correct.

59. Ans: (d)

Sol: Option (d) is correct because the passage does not state that lunar water extraction is financially unfeasible due to the costs associated with mining operations. It discusses challenges but does not make a specific claim about financial feasibility. Option (a) is incorrect because the passage explicitly states that transporting water from Earth to the moon is prohibitively expensive, costing thousands of dollars per liter. Option (b) is incorrect because the passage mentions that the ability to extract and purify water on the moon would dramatically reduce the logistical and financial burdens of lunar missions. Option (c) is incorrect because the passage states that establishing a "fuel depot" on the moon could revolutionize the economics of space travel. Hence (d) is correct.

60. Ans: (b)

Sol: Option (b) is correct because the passage explicitly states that the ability to extract and purify water on the moon would "dramatically reduce the logistical and financial burdens of lunar missions." This directly supports the author's conclusion about the far-reaching implications of lunar water-ice for future space missions. Option (a) is incorrect because the passage does not mention the water-ice serving as an archive to study the history of the solar system. This point is not relevant to the author's conclusion about the implications for future space missions. Option (c) is incorrect because while the passage states that the moon's surface is largely arid, this point does not support the conclusion that the discovery has far-reaching implications for future space missions. It merely offers context for the significance of finding water on the moon. Option (d) is incorrect because the passage does not mention any ecological threats that lunar water poses to the existing lunar environment. Thus, it does not support the author's conclusion regarding the implications for future missions. Hence, (b) is correct.

61. Ans: (c)

Sol: Option (c) is correct because the passage states that "Have you seen the price of butter and everything that's gone up? It's crazy." and "My rent has gone up as well. My council tax has gone up. My phone bill has gone up. Broadband has gone up. Everything has gone up." These statements indicate that the author is concerned about the rising cost of living in the UK, which contributes to their feeling that everything about the UK feels toxic at the minute. Option (a) is incorrect because the passage states that "I feel as if I'm constantly on edge" and "I don't feel comfortable," indicating that the author does not feel completely safe and comfortable in the UK. Option (b) is incorrect because the author talks about "this racist rhetoric that is coming from the government," which suggests a lack of optimism about the current political climate. Option (d) is incorrect because the author explicitly states that everything about the UK feels toxic, which is the opposite of believing it to be a utopian society. Hence, (c) is correct.

62. Ans: (a)

Sol: Option (a) is correct because the passage states that "I've had to go back and appreciate everything from the basics. There is no other way." This implies that the author finds solace in simplifying their life and focusing on fundamental aspects, suggesting discontent with the complexities of modern life. Option (b) is incorrect because the author talks about being grateful for basic things like having a flat and a job, which doesn't indicate that material wealth is their key to happiness. Option (c) is incorrect because the author already has a new job and multiple other jobs, and the focus is on appreciating the basics rather than seeking new employment to feel good. Option (d) is incorrect because the author explicitly states that they've had to appreciate everything from the basics, indicating a sense of gratitude rather than ingratitude. Hence, (a) is correct.

63. Ans: (b)

Sol: Option (b) is correct because the passage is a first-person account discussing the author's experiences, thoughts, and feelings about their life and the current state of the UK. This makes it an autobiographical commentary. Option (a) is incorrect because there are no elements of science fiction in the passage; it deals with real-life issues and concerns. Option (c) is incorrect because, although the author mentions wanting to go on a holiday, the primary focus is not on travel or different locations. Option (d) is incorrect because the passage does not provide recipes or focus on cooking, even though the author mentions having to cook more often. Hence, (b) is correct.

64. Ans: (b)

Sol: Option (b) is correct because the passage uses the metaphor "It's a pressure cooker and it's going to spill over" to describe the current atmosphere in the UK, indicating that the author feels the situation is building up to an uncontrollable point. Option (a) is incorrect because the metaphor of a "pressure cooker" implies a situation that is far from stable and manageable. Option (c) is incorrect because the term "pressure cooker" is used metaphorically to describe the socio-political climate, not to suggest that cooking relieves stress. Option (d) is incorrect because the author criticizes the government's actions and rhetoric, showing no optimism that the government will resolve the issues soon. Hence, (b) is correct.

65. Ans: (b)

Sol: Option (b) is correct. The correct sentence is, 'I don't think the government understands the level of hate it has stirred up in its constant attacks on brown people. "Instead of ' had stirred up' it should be 'has stirred up' , to maintain the Parallelism as the sentence is in the Present Tense. Hence, (b) is correct.

66. Ans: (c)

Sol: Option (c) is correct because the passage states that the author has noticed the price of butter and other items going up, which directly supports the conclusion that the cost of living has increased. Option (a) is incorrect because the passage states that the author has Saturday

reparation work, but it does not relate to the cost of living increasing. Option (b) is incorrect because although the author's new job pays better, it does not indicate that the cost of living has increased. Option (d) is incorrect because the author's plan to save money for a holiday is not related to the increase in the cost of living. Hence, (c) is correct.

67. Ans: (c)

Sol: Option (c) is correct because the author states that the government's "constant attacks on brown people" and "racist rhetoric" make them feel uncomfortable and on edge, implying that the government's actions are contributing to a toxic environment. Option (a) is incorrect because the author explicitly states that they feel on edge due to the government's rhetoric, suggesting it does affect social interactions. Option (b) is incorrect because the author says, "I don't think the government understands the level of hate it has stirred up," which contradicts this option. Option (d) is incorrect because the author's overall tone and statements indicate that they believe the social climate has worsened, not improved. Hence, (c) is correct.

68. Ans: (b)

Sol: Option (b) is correct because the author mentions various stressors like rising costs, social issues, and a toxic environment, indicating that he feels overwhelmed and thus needs to "go back to basics" to find some semblance of peace. Option (a) is incorrect because the author states that having multiple jobs feels normal to him and not like a chore. Option (c) is incorrect because although the author wants a holiday, he does not indicate that it's to escape responsibilities; rather, it's more about needing a break. Option (d) is incorrect because the author explicitly states that he finds the current state of affairs in the UK to be toxic and unsettling. Hence, (b) is correct.

69. Ans: (b)

Sol: Option (b) is correct because the author states that although he was hoping for a permanent job with holiday pay, the new job pays better than the last one and allows him to plan for the future. Option (a) is incorrect because the author, despite mentioning the contract's temporary nature, does not express unhappiness about it. Option (c) is incorrect because the author explicitly says that having multiple jobs "doesn't feel like a chore to me, it feels normal." Option (d) is incorrect because there is no indication in the passage that the author is planning to quit his new job due to the lack of holiday pay. Hence, (b) is correct.

70. Ans: (c)

Sol: Option (c) is correct because the author states, "It seems to me that some shops have increased prices during this cost of living crisis out of greed," which necessarily implies that he believes some shops are exploiting the situation. Option (a) is incorrect because the author says, "Inflation is supposed to be going down," but does not express this as his own belief. Option (b) is incorrect because the author mentions that the Windrush compensation scheme is taking too long, indicating dissatisfaction. Option (d) is incorrect because although the author mentions that his council tax has gone up, he does not specifically state that it should not have increased. Hence, (c) is correct.

71. Ans: (a)

Sol: Option (a) is correct because the author states, "I talk to my colleagues. I talk to my friends. Everybody feels the same." If it were true that the author's friends and colleagues did not share the same concerns, it would weaken the author's argument about the toxic environment. Option (b) is incorrect because the author's argument is based on his personal experiences and feelings, which may not be immediately affected by new legislation. Option (c) is incorrect because the author does mention a personal experience where he felt he was ignored due to the color of his skin. Option (d) is incorrect because the cost of living is only one aspect of the author's argument about the toxic environment, and its decrease would not necessarily weaken the entire argument. Hence, (a) is correct.

72. Ans: (b)

Sol: Option (b) is correct because the author's concern about being targeted implies an underlying assumption that the government's rhetoric has a direct influence on public behavior and attitudes. Option (a) is incorrect because the author explicitly states that he feels on edge due to the government's rhetoric, suggesting it does have a real-world impact. Option (c) is incorrect because the author criticizes the government for its "constant attacks on brown people," which contradicts the idea of promoting inclusivity. Option (d) is incorrect because the author's concern about being targeted suggests he believes the rhetoric does affect society, not just serve political gain. Hence, (b) is correct.

73. Ans. (c)

Sol. Option (c) is correct because the statement rightly summarizes the given phrase. Option (a) is incorrect because the phrase does not indicate a high prevalence. Option (b) is incorrect because the phrase means that the debate had never faded away. Option (d) is incorrect because the phrase indicates that no efforts are required to continue the debate. Hence (c).

74. Ans. (a)

Sol. Option (a) is correct. The passage can be used to ascertain the meaning of 'debate' in the given statement. The passage indicates that the debate primarily revolves around the dimensions of poverty. Hence (a).

75. Ans. (d)

Sol. Option (d) is correct. The passage is primarily an analysis of the Multidimensional poverty index on which the primary think tank of the government has published a report. Option (a) is to be rejected as the article is too much detailed and academically oriented to form a magazine content. Option (b) and (c) are to be rejected because the passage does not limit itself to the reporting and elaboration of the concerned new items. Hence (d).

76. Ans. b

Sol. Option (b) is correct. The Multidimensional Poverty Index considers dimensions like health, education, and standard of living, going beyond just income. Hence (b).

77. Ans. b

Sol. Option (b) is correct. The Multidimensional Poverty Index goes beyond income and includes various dimensions, making income-based measurement a subset of MPI.

78. Ans. d

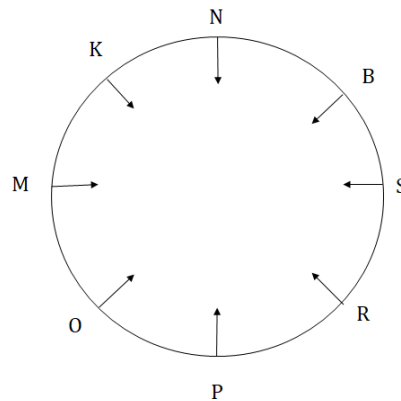
Sol. Household G has the highest MPI score of 0.92, indicating the most severe poverty level. Hence, (d).

79. Ans. a

Sol. Households A, D, and F have MPI scores below the national average, making it three households. Hence, (a).

80. Ans. d

Sol. COMMON EXPLANATION,



O is Fourth to the left of B, also Fourth to the Right of B, Hence, (d).

81. Ans. c

Sol. Option (c) is correct. Following the COMMON EXPLANATION, O and R are the immediate neighbours of P. Hence, (c).

82. Ans. b

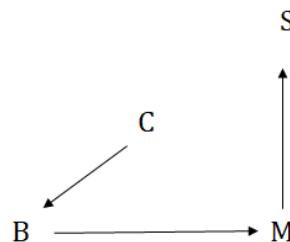
Sol. Option (b) is correct. M is 2nd to the left of P, similarly, S is 2nd to the left of N, and therefore, B is 2nd to the left of K. Hence, (b).

83. Ans. d

Sol. Option (d) is correct. V was 9th from the left while J was 8th from the right in the front row and H was 13th from the left and was exactly in the middle of V and J in the same row that means total number of person in between of V and H is 3 which is equals to the number of persons in between H and J. Therefore, total number of persons in row is $9 + 3 + 1 + 3 + 8 = 24$. Hence, (d).

84. Ans. d

Sol.



Hence, (d).

85. Ans. (b)

Sol. Option (b) is correct. There is no phrasal verb in the sentence. Option (a) has the words 'carry out' as a phrasal verb. It means to implement, execute or perform. Option (c) has the words 'provide users with any capability', it has the phrasal verb 'providewith'. Sentence in option (d) is also correct, as the phrasal verb used here is 'in exchange for'. Hence (b).

86. Ans. (a)

Sol. Option (a) is correct because the meaning of the statement can be ascertained from the statement- "Ethereum's value increased vis-à-vis the dollar, the Ether cost of transactions (called gas) began to increase in value, too. The extreme volatility of the cryptocurrency markets made it more desirable to execute buy and sell decisions quickly; thus, actors needed transactions to be faster, which could be carried out only by increasing the gas fee one pays for moving data monies." Hence (a).

87. Ans. (b)

Sol. Option (b) is correct because the contextual meaning of 'free lunch' is the monetary benefits which one aims to earn without paying for. This meaning can be ascertained by subsequent statements. Hence (b).

88. Ans. (c)

Sol. Option (c) is correct because the statement does not state a fact but an opinion about bitcoins. Options (a), (b) and (d) are to be rejected as these statements are factual narration of the topic by the author. Hence (c).

89. Ans. (d)

Sol. Option (d) is correct because the passage states that one could build a new blockchain on Ethereum or Bitcoin; however, it was not feasible to build a chain that would connect different blockchains. Hence (d).

90. Ans. b

Sol. Option (b) is correct. Just as accountants ensure proper bookkeeping in traditional finance, miners verify and approve transactions in the crypto economy. Hence (b).

91. Ans. a

Sol. Increase of 20% of 0.05 Ether = $0.05 * 0.20 = 0.01$ Ether. New fee = $0.05 + 0.01 = 0.06$ Ether. Hence, (a).

92. Ans. a

Sol. Option (a) is correct. The assertion is true as second-generation blockchains, including Ethereum, aimed to address energy inefficiency. The reason is correct because Ethereum's energy-efficient design did contribute to reduced energy consumption. Hence (a).

93. Ans. b

Sol. Option (b) is correct. The assumption assumes that the value of Ether will increase, but this does not necessarily lead to the conclusion that gas fees will keep rising, as multiple factors can influence gas fees. Hence (b).

94. Ans. a

Sol. Option (a) is correct. Just as central banks play a role in traditional financial systems, miners play a crucial role in maintaining the integrity of cryptocurrency systems.

95. Ans. b

Sol. Option (b) is correct. The correct order is First-generation (slow and energy-inefficient), Second-generation (Ethereum and improved design), Third-generation (interchain networks and improved scalability). Hence (b).

96. Ans. b

Sol. Option (b) is correct. Statement II is correct as interchain networks allow different blockchains to transact. Statement I is incorrect; while second-generation blockchains improved efficiency, they did not necessarily address all energy inefficiency. Statement III is incorrect; miners are paid for transaction verification, not for writing algorithms. Hence (b).

97. Ans. (b)

Sol. Option (b) is correct because AI is said in the passage to address the issue of 'loneliness' in the same manner as a therapist is said to address the issue of depression. Hence (b).

98. Ans. (a)

Sol. Option (a) is correct because the passage clearly indicates that the AI only mimics humans and cannot think emotionally like humans. Hence (a).

99. Ans. (a)

Sol. Option (a) is correct because in the given passage, the author seems concerned about the various implications of AI. It can be understood from the following lines of the passage, 'Much of the virtual world is already a harmful environment for women and girls, a situation the Covid-19 pandemic worsened when many were stuck at home due to lockdowns, according to UN Women.' And 'A lack of regulation around the AI industry makes it harder to set and enforce safeguards for women's and girls' rights, tech experts and developers said.' Hence (a).

100. Ans. (a)

Sol. Option (a) is correct because in this statement, the term "Wild West" refers to a period in American history that roughly spans from the early 19th century to the late 19th century, particularly during the westward expansion of the United States. It is often characterized by its lawlessness, ruggedness, and untamed nature, as well as the rapid development and settlement of the western territories. Hence (a).

101. Ans. (d)

Sol. Option (d) is correct. The sentence should have the correct phrase, 'feed off' instead of 'feed on'. The phrasal verb 'feed off' means to grow, thrive and prosper due to being dependent on somebody else. Whereas the words 'feed on' have a literal meaning of eating something to survive. Hence (d).

102. Ans. (a)

Sol. Option (a) is correct. Just as virtual companions provide an alternative to human relationships, virtual environments provide an alternative to real-life experiences. Hence (a).

103. Ans. (b)

Sol. Option (b) is correct. The article mentions that AI companions could reinforce controlling and abusive behaviours against women due to the nature of their interactions. Hence (b).

104. Ans. (b)

Sol. Option (b) is correct. The statement is true as per the article, but the assumption that real-life couples always face communication difficulties is not supported by the information provided. Hence (b).

105. Ans. (a)

Sol. Option (a) is correct. The statement highlights the issue, and the course of action suggests a step towards the solution to address the concern. Hence (a).

106. Ans. (c)

Sol. Option (c) is correct. AI companions function based on the user's instructions and imagination, which can potentially lead to one-sided, controlling interactions.

107. Ans. (d)

Sol. Option (d) is correct. Vallor's concern is about the manipulation of emotions by AI companions, which can potentially be harmful.

108. Ans: b)

Sol. Option (b) is correct. The article mentions that the EU AI Act aims to become a global benchmark, similar to how their data protection laws influenced global privacy standards. Hence (b).

109. Ans: c

Sol: Option (c) is correct. According to the passage, the Kerala High Court granted divorce in the case involving marital rape because they considered marital rape to be an act of cruelty, even though it is not penalized in India. This is clearly mentioned in the last few lines of the first paragraph. Hence (c).

110. Ans: c

Sol: Option (c) is correct. The last paragraph emphasizes the need to challenge the idea that women are considered property in marriage. The phrase-ideology of “women being men’s chattel”, implies the same and thus the paragraph supports women’s rights. Hence (c).

111. Ans: (b)

Sol: Option (b) is correct. The passage highlights the problem of marital rape and discusses the need for societal challenge. Option (c) suggests addressing the issue through education and awareness, which aligns with the passages’ theme of promoting women’s rights and autonomy. Hence (b).

112. Ans: a

Sol: Option (a) is correct. The passage mentions that the Kerala High Court recognized marital rape as an act of cruelty and granted divorce, even though it is not penalized in India. It also discusses the Indian government’s stance in favor of maintaining the exception for married men in Section 375 of the IPC. Therefore it can be logically deduced that the Kerala High Court’s judgment is consistent with the government’s stance, as mentioned in option (a). Hence (a).

113. Ans: b

Sol: Option (b) is correct. According to the passage, the government believes in protecting the sacred institution of marriage and has no intentions of discontinuing the exception for married men, as mentioned by the Minister of State for Home Affairs, Haribhai Parathibhai Chaudhary, in response to a question raised in the Rajya Sabha. This means that according to the government’s perspective, sexual intercourse between a husband and a wife, even without her consent, is not considered rape under Indian law due to the exception.

114. Ans. (b)

Sol. The correct option is (b). Vidhi can make the argument that the government will not necessarily interfere with personal laws as the public considers marriage as a sacred institution. Hence, option (b) is correct. Options (a) and (c) are vague and not expressed in the passage, hence they must be rejected.

115. Ans. (c)

Sol. The correct option is (c). The author notes that the government is not likely to interfere in marriage related personal laws out of fear of offending the institution of marriage. Hence, option (c) highlights this and is the best option. Option (a) is vague whereas Option (b) does not reflect a true statement. Hence, they must be rejected.

116. Ans. (b)

Sol. The correct option is (b). The passage provides that in *Independent Thought v. Union of India* in 2017 delivering a prospective judgment, raised the age of consent from 15 to 18 and the apex court held that irrespective of her marital status, a girl child below 18 years of age is incapable of giving consent for sexual intercourse. The judgment does not have the retrospective application therefore it cannot be said to have applied in the present case. In the present case the provision as provided before this judgment would apply wherein the age provided was 15. Since Vidhi had surpassed that age, Vidhan would get the protection of the exception.

117. Ans. (d).

Sol. The correct option is (d). All of the statements mentioned find expression in the passage as true statements which the author uses to extrapolate on the Kerala High Court judgment.

118. Ans. (c)

Sol. The correct option is (c). According to the passage, the author notes that just because the Legislatures do not recognize the act of marital rape does not preclude its happenings. Further, the Kerala High Court judgment has paved the way for marital rape to be considered as ground for divorce under cruelty. Author also states that society still views women as men's chattel and hence, both statements would buttress the argument for removing the exclusion of husband under Section 375, IPC.

119. Ans: a

Sol : Option (a) is correct. it should be 'The Kerala High Court in contrast to the general law of India delivered a landmark judgment that deemed marital rape to be a valid ground for divorce.' The phrase is 'deemed to be' instead of 'deemed as'. The rest of the sentences are correct ones.

120. Ans: d

Sol: Option (d) is correct. Sentence (i) is a Fact, as it can be verified whether the bench held to its opinion or not, irrespective of what the opinion / judgement is. Sentence (ii) is an Inference. The former half of the sentence is what matrimony is considered to be, hence a fact (generalized) and the latter half of the sentence is an opinion stating what might happen if the changes are made. Hence the sentence becomes an Inference. Sentence (iii) is a Judgement as it states the author's opinion. Sentence (iv) is an Inference giving the reason for the preference made by the government. Hence (d).

Current Affairs with GK

121. Ans. a

Exp. Union Environment, Forest, and Climate Change Minister Bhupender Yadav announced the results of the Swachh Vayu Sarvekshan 2023 (clean air survey).

Indore, Madhya Pradesh, claimed the top spot among million-plus population cities. The survey, in its second year, included 130 identified cities under the National Clean Air Programme. Agra, Uttar Pradesh, secured the second rank, followed by Thane, Maharashtra, in third place.

122. Ans. b

Exp. India and the United Nations have launched a joint capacity-building initiative called "India-UN Capacity Building Initiative". Its objective is to share India's development experiences with partner countries in the Global South. In this program, India's Foreign Minister Dr. S. Jaishankar and President of the 78th UN General Assembly Dennis Francis participated.

123. Ans. A

Exp. India will host the first edition of the Global India AI 2023 conference in October this year. It is a good platform for AI applications in next-generation learning, artificial intelligence models, electric vehicles and computing systems. Minister of State for Electronics and Information Technology, Rajeev Chandrasekhar has given this information.

124. Ans. a

Exp. A Hyderabad-based robotics firm (Graene Robotics) has unveiled a state-of-the-art AI-powered anti-drone system named Indrajal. This system can not only protect important installations like nuclear installations, oil fields, but can also protect entire cities from any type of drone. Indrajal is designed to defend against all types of drones in an area of 4,000 square kilometers.

125. Ans. b

Exp. The Indo-Australian tennis pair Rohan Bopanna-Matthew Ebden lost to the defending US Open men's doubles champions Rajeev Ram-Joe Salisbury, in the finals of US Open. Rajeev Ram and Joe Salisbury became the first men's doubles team at the US Open to achieve a three-peat in more than 90 years.

126. Ans. d

Exp. Indian Prime Minister Narendra Modi invited U.S. President Joe Biden to be the chief guest at India's Republic Day celebrations, and the invitation is currently under consideration by the U.S. government.

127. Ans. c

Exp. Almost three decades after it was first introduced in the parliament, the Women's Reservation Bill was unanimously passed by the Rajya Sabha. With this, the 128th Constitutional Amendment Bill, or the Nari Shakti Vandan Adhiniyam, will reserve one-third of the seats in the Lok Sabha and the legislative assemblies for women.

128. Ans. a

Exp. India has won its first gold medal in the Asian Games 2023. Aishwarya Pratap Singh, Divyansh Singh Panwar and Rudraksh Patil topped the 10m air rifle men's team event. This Indian trio won the gold medal in 10 meter air rifle with a world record score of 1893.7. The 19th edition of the Asian Games is being organized in Hangzhou, China from 23 September. 655 athletes from India are participating in this event.

129. Ans. c

Exp. The Indian government has suspended the visa service for Canadian citizens 'until further notice'. The government has taken this big decision amid the ongoing tension between India and Canada. BLS International, an online visa application center in Canada, has issued a notice in this regard on its website. India has suspended visa services for Canadians in view of the current dispute.

130. Ans. d

Exp. In preparation for the 18th G20 Summit, a Conference titled Transnational GridInterconnections for One Sun, One World, One Grid (OSOWOG) took place in New Delhi. Organized by Power Grid Corporation of India Limited (POWERGRID), this event highlighted the significance of cross-border grid interconnections in the context of global energy sustainability.

131. Ans. b

Exp. Taiwan unveiled its first domestically-built submarine, named the Haikun, as a defence measure against potential Chinese threats.

132. Ans. d

Exp. The theme of the ASEAN Summit is "ASEAN Matters: Epicentrum of Growth".

133. Ans. a

Exp. NASA's Perseverance rover set the record for the longest Martian navigation without human assistance by covering 2,296.2 feet in the challenging terrain of Snowdrift Peak within the Jezero Crater.

134. Ans. d

Exp. The old Parliament building in New Delhi officially renamed as Samvidhan Sadan.

135. Ans. d

Exp. Veteran actress Waheeda Rehman will be honored with the country's top honor in the field of cinema, the Dadasaheb Phalke Award. Last year, the Dadasaheb Phalke Award was presented

to veteran Bollywood actress Asha Parekh. The Government of India had announced the Dadasaheb Phalke Award in 1969. Dadasaheb Phalke is known as the 'Father of Indian Cinema'.

136. Ans. d

Exp. Designed by British architects Lutyens and Baker, the old Parliament building served as the Imperial Legislative Council during British rule and later as the Constituent Assembly and Parliament of India.

The Chausath Yogini temple in Mitaoli, Madhya Pradesh, is believed to have inspired the old Indian Parliament's circular, pillared structure. Built in the 14th century, this temple is dedicated to 64 powerful yoginis and features unique architectural elements, including a hypaethral design with no roof.

137. Ans. c

Exp. India has joined a global platform launched by the US and the UAE with an aim to accelerate investment and support for climate-smart agriculture and food systems innovation.

138. Ans. b

Exp. The Maharashtra cabinet approved the Gender Inclusive Tourism Policy 'Aai' on May 30, 2023, under the Azadi Ka Amrit Mahotsav to empower women in the tourism sector.

139. Ans. d

Exp. The Gender Gap Report, 2023 was released recently by the World Economic Forum. India stood at 127th position out of 146 countries in terms of gender parity.

The country had improved by 1.4 percentage points from 2022 figures, marking a partial recovery towards its 2020 parity level.

140. Ans. d

Exp. Egypt's highest state honor Order of Nile was conferred upon Prime Minister Narendra Modi by President Sisi during his visit to Egypt.

141. Ans. a

Exp. UNESCO headquarter is located in Paris, France.

142. Ans. c

Exp. Due to budget constraints, Australia was forced to abandon National Space Mission for Earth Observation.

The main goal of the program was to develop, build, and operate a set of four satellites, scheduled for launch between 2028 and 2033, with the purpose of collecting crucial Earth observation data.

143. Ans. c

Exp. Spain's young player Carlos Alcaraz created history by winning his first Wimbledon title. Alcaraz defeated veteran Novak Djokovic in the men's singles final of Wimbledon 2023. This is his second Grand Slam title. He has become the third youngest player to win the Wimbledon Men's title. Alcaraz won the US Open title in the year 2022.

144. Ans. c

Exp. Recently Global Peace Index (GPI) 2023 has been released. Under this, the ranking of 163 countries of the world has been prepared. According to this ranking, Iceland is the most peaceful country in the world. The data for the year 2022 has been included in this. This report has been released by the Institute for Economics and Peace (IEP). India ranks 126th in the Global Peace Index (GPI) 2022 ranking. According to the report, Afghanistan is the most troubled country in the world.

145. Ans. b

Exp. The Elephant Conservation Network (ECN) was recently formed in Assam.

146. Ans. a

Exp. Harmanpreet Kaur-led Mumbai Indians (MI) won the Women's Premier League 2023 title by defeating Delhi Capitals by 7 wickets in the final match played at the Brabourne Stadium in Mumbai. Additionally, the Most Valuable Player of the tournament award was given to Hayley Matthews, while the Orange Cap went to 'Meg Lanning' and Purple Cap Award to 'Hayley Matthews'. India's Yastika Bhatia was given the Emerging Player of the Season award.

147. Ans. a

Exp. The Kermadec Islands, which were hit by a magnitude 7.1 earthquake, are located in New Zealand.

148. Ans. b

Exp. Calorie, Erg and Joule are the units of Energy while watt is the unit of Power.

149. Ans. b

Exp. Lysosome is called the "suicidal bags" of the cell.

150. Ans. a

Exp. Cesium is extremely reactive metal. It reacts with water even at -116°C (-177°F). It is the least electronegative element. Cesium is also the softest known metal. It is so soft that it can be cut with a butter knife.