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# CLAT 2024 **RANBHOMI** *THE FINAL SPRINT*

— THE CLAT COMBAT —  
**THE MATHEMAGICIAN**



**QUANTITATIVE TECHNIQUES (DI)**

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**THE CLAT COMBAT**

**Quantitative Techniques 2**

**Directions (1-5):** Read the following information carefully and answer the questions that follow.

The Vidhi International Bank for Reconstruction and Development has published a report regarding no. of people employed in various sectors across a particular region. A total of 4523 men are employed in the agriculture sector in the rural areas as compared to 3971 women while 2583 men and 2407 women are employed in the agriculture sector in the urban areas. In urban areas 3843 men and 3792 women are employed in the Govt. job while 3492 men and 3071 women are employed in the Govt. job in the rural areas. Manufacturing sector data reveals that 1927 men and 1731 women are employed in this sector in the rural areas while in the urban areas 2709 men and 2065 women are employed in the same sector.

- The no. of women in the agriculture sector is what percent less than the no. of men in the agriculture sector?  
 (a) 9.78% (b) 10.24% (c) 15.62% (d) 21.56%
- The total no. of men employed in the urban areas across all the sectors?  
 (a) 9942 (b) 8264 (c) 9135 (d) 8973
- The total no. of people employed in the Govt. Job sector is what percent of the total no. of people employed in the manufacturing sector?  
 (a) 59.38% (b) 79.38% (c) 148.38% (d) 168.38%
- The Vidhan International Development Association also conducted a survey of the same locality. They published their report after the findings of the survey. They found out that there were 1058 additional men and 1227 additional women are employed in the services sector in the rural areas. Also, there were 1865 additional men and 1736 additional women who were employed in the urban areas in the same service sector. Use this additional information to answer this and the next question.  
 The total no. of men employed in the Govt. job sector in the rural areas is what percent of the total no. of men across all the four sectors in the rural areas?  
 (a) 31.74% (b) 34.92% (c) 37.14% (d) 39.42%
- The total no. of women employed in the services sector in urban areas is what percent of the total no. of women across all the four sectors in the urban areas?  
 (a) 15.78% (b) 17.36% (c) 18.52% (d) 19.63%

**1. Ans. b**

Sol. COMMON EXPLANATION

The given data can be converted into the following table

AGRICULTURE				GOVT. JOB				MANUFACTURING			
RURAL		URBAN		RURAL		URBAN		RURAL		URBAN	
M	W	M	W	M	W	M	W	M	W	M	W
4523	3971	2583	2407	3492	3071	3843	3792	1927	1731	2709	2065

Men in the agriculture sector = 4523+2583 = 7106

Women in the agriculture sector = 3971+2407 = 6378

Difference = 7106-6378 = 728

Required % = 728/7106 = 10.24%

Use approximation

710/7100 will be 10%

Thus, our answer will be slightly greater than that.

Hence, option (b) is correct.

**2. Ans. c**

Sol. Following the COMMON EXPLANATION

Total no. of men employed in the urban areas across all the sectors = 2583 + 3843 + 2709 = 9135

OR

## THE CLAT COMBAT

Use the concept of unit digit

$$3+3+9 = 5$$

Thus, the answer will have the unit digit 5.

Hence, option (c) is correct.

### 3. Ans. d

Sol. Following the COMMON EXPLANATION

$$\text{Total no. of people employed in the Govt. Job sector} = 3492+3071+3843+3792 = 14198$$

$$\text{Total no. of people employed in the manufacturing sector} = 1927+1731+2709+2065 = 8432$$

$$\text{Required \%} = 14198/8432 = 168.38\%$$

Use approximation

$$\frac{14200}{8400} = \frac{8400 + 5800}{8400} = \frac{8400}{8400} + \frac{5800}{8400} = 100\% + 70\%(\text{approx.}) = 170\%$$

Our answer will be closer to this value.

Hence, option (d) is correct.

### 4. Ans. a

Sol. Following the COMMON EXPLANATION

$$\text{Men in the Govt. Job sector in the rural areas} = 3492$$

$$\text{Total no. of men in the all four sectors in the rural areas} = 4523+3492+1927+1058 = 11000$$

$$\text{Required \%} = 3492/11000 = 31.74\%$$

Hence, option (a) is correct.

### 5. Ans. b

Sol. Following the COMMON EXPLANATION

$$\text{The total no. of women employed in the services sector} = 1736$$

$$\text{Total no. of women across all the four sectors in the urban areas} = 2407+3792+2065+1736 = 10000$$

$$\text{Required \%} = 1736/10000 = 17.36\%$$

Hence, option (b) is correct.