

MAT 2008 (07/12/08)**DI and DS**

Questions based on bar graph: (Number of workers in a company).

1. What is the percentage decrease in the average number of executives officers and managers in 1998 as regards the same in 1995

Ans. 2.22

2. What is the approximate ratio of the average number of labourers and that of managers?

Ans. 59 : 1

3. Which year has shown decrease in every section of the number of employees?

Ans. 1997

4. Find the percentage (approximately) of average number of clerks with respect to the average number of total employees of the company.

Ans. 15

Questions based on bar graph and pie- chart: Production of wheat.

5. What is the ratio of production by conventional method in Pakistan to that by scientific method in Japan?

Ans. $\frac{51}{260}$

6. What is the difference between the production by scientific method and conventional method in Indonesia?

Ans. 2.3 lakh tonnes

7. The production of wheat in Sri Lanka by conventional method is approximately how many times the production in India by scientific method?

Ans. 0.9

8. What is the average production of wheat by scientific method for all the countries?

Ans. 4.24 lakh tonnes

Questions based on pie- chart. (National Budget Expenditure)

9. If India had a total expenditure of Rs. 120 billion, approximately how many billions did it spend on interest on debt?

Ans. Rs. 10.8 billion

10. Approximately how many degrees should there be in the angle of the sector for military expenditure?

Ans. 212.4

11. If Rs. 9 billion were spent for veterans, what would have been the total expenditure for that year?

Ans. 56 billion (approx)

12. What is the ratio of military expenditure to veterans expenditure approximately?

Ans. None of these

Quantitative comparison questions

Column A

Column B

13. A single discount of 10%

Two successive discounts of 5% and 5%.

Ans. Column A is greater.

14. Area of square with side 1.8 m

Area of a circle with diameter 2 cm

Ans. Column A is greater.

15. The per cent of increase from Rs. 10 to Rs. 12

The per cent of increase from Rs. 20 to Rs. 22

Ans. Column A is greater.

16. Area of a rectangular strip 157 cm long and 2 cm wide

Area of a circle with radius 10 cm

Ans. Column B is greater.

17. One-third of half of x

15% of x

Ans. Column A is greater.

18. Circumference of a circle having radius 1 cm

Perimeter of a square having side 1.5 cm

Ans. Column A is greater.

19. Number of ways to arrange 5 different books on a shelf

Number of minutes in two hours

Ans. both quantities are equal

Data Sufficiency questions

20. Which is the smaller of the two numbers?

- I. The difference between these two numbers is one-third of the largest number.
- II. The sum of these two numbers is 30.

Ans. both statements I and II together are necessary to answer the question.

21. By selling a product for Rs. 100 how much profit was earned?

- I. 20% profit would have been earned if it had been sold for Rs. 90.
- II. The profit was one-third of the purchase price.

Ans. either statement I alone or statement II alone is sufficient to answer the question.

22. What is the ratio between the present ages of a father and his son?

- I. Ratio of the present ages of the father 20 years before and son 10 years before was 2 : 1.
- II. Sum of the present ages of the father and son is 50 years.

Ans. both statements I and II together are necessary to answer the question.

23. What is the speed of a running train which takes 6 seconds to cross a single post?

- I. The length of the train is 90 m.
- II. The train takes 18 seconds to cross a platform 180 m long.

Ans. either statement I alone or statement II alone is sufficient to answer the question.

24. How many marks did Arun get in History?

- I. Average marks obtained by Arun in History, Maths and English is equal to the average marks in Maths and English.
- II. Arun got a total of 120 in Maths and English teacher.

Ans. both statements I and II together are necessary to answer the question.

25. In a class, the ratio of boys and girls is 13 : 10. How many boys are there in the class?

- I. The number of boys is 30% more than that of girls.
- II. The number of girls is 15 less than that of boys.

Ans. statement II alone is sufficient to answer the question, while statement I alone is not sufficient to answer the question.