

REASONING TEST PAPER 1

Directions for questions 1 to 25

Each question is based on a passage. Select the best answer choice given

Passage1

A Company manufactures chairs. In 1994 its installed capacity was 3 lacs. Now it doubled in 1998 and remained the same in 1999. Through 1995-1997 it was $\frac{2}{3}$ the capacity of 1998. Capacity utilization is inversely proportional to capacity. In all years except 1994 capacity utilization was below 100% though production increased steadily over the years. In 1994 it was 110%, 1995-85%, 1996-90%, 1997-91% and 1998-76%. In 1999 it was the same as 1996 levels.

The selling price was Rs4 per unit in 1994 increased at 10% per annum till 1996. In 1997 it was Rs5 per unit and thereafter it rose 20% per annum. Unit sales are 90% of production in 1994 and 1995 and 95% in 1997,1998,1999.

1996 was a boom year in which the company sold all that it produced in that year plus the inventory of the last 2 years (assume opening inventory to be zero in 1994). The company has been facing heavy competition and market share by value has been declining from 25% in 1994-95, it was 60% of that in 1998-99. 1996 & 1997 shares were equal to the average share of these 6 years. The company spends 4.33% of its sales revenue every year on advertising.

1. What was the production in 1997?
 1] 350,000 2] 360,000 3] 364,000 4] 365,000
2. What was the total sales revenue in 1996?
 1] 1,900,360 2] 2,066,680 3] 1,890,560 4] 2,135,500
3. What was the advertising expenditure in 1998?
 1] 112,545 2] 120,000 3] 135,000 4] 123,345
4. What were the unit sales in 1996?
 1] 427,000 2] 450,000 3] 360,000 4] 365,000
5. What was the total market in 1997?
 1] 84.39lac 2] 86.45lac 3] 79.69lac 4] cannot be determined

Passage2

IN organizing a newspaper 4 editors are required ;the managing editor, the news editor, the sports editor and the entertainment editor. The managing editor can work only on Wednesday mornings, Thursday afternoons and Friday the whole day. The news editor can work only on Monday afternoons, Tuesday and Thursday the whole day. The sports editor can work only on Monday afternoons, Tuesday mornings and Wednesday the whole day. The entertainment editor can work all day Monday and Wednesday only.

6. If the managing editor cannot edit until each of the others has completed atleast a full day of work, when is the earliest the managing editor can work?
 1]Wednesday afternoon 2]Friday morning
 3]Monday morning 4]Thursday afternoon

7. One of the editors must work completely alone for the whole day in order to prevent confusion and disorder. If no other editor can afford to lose his available time, then the only possible editor privileged with working alone is

- 1] The news editor on Tuesday 2] The managing editor on Friday
 3] The sports editor on Monday 4] The entertainment editor on Thursday

Passage3

4 people Arti, Banti, Chetan and Dolly have together got Rs100 with them. Arti and Banti together have got as much money as Chetan & Dolly put together. Arti has got more money than Banti. Chetan has half as much money as Dolly has. Arti has Rs5 more than Dolly.

8. Who has got the most money?

- 1] Arti 2] Dolly 3] Chetan 4] Cannot be determined

9. How much does Banti have?

- 1] 12.03 2] 11.6 3] 13.3 4] None of these

10. Who has got the second biggest sum?

- 1] Arti 2] Chetan 3] Dolly 4] Banti

11. What is the ratio of the amount with Chetan and Dolly?

- 1] 2:1 2] 1:2 3] 1:3 4] 1:4

12. Who has got the least amount of money?

- 1] Banti 2] Arti 3] Chetan 4] Dolly

Passage4

The following is the list of instructions to be followed

Step1: $x=0$ $A=2$ $B=3$

Step2: If $X < 5$ then do Steps3-6 otherwise Step7

Step3: $Y=A+B$ replace A by B replace B by Y

Step4: Type Y

Step5: Increase X by 2

Step6: Goto Step2

Step7: Exit

13. When $X=4$ what value of Y is typed?

- 1] 12 2] 8 3] 13 4] 5

14. Suppose Step5 is replace by 'Increase X by 5' then what would be the last value of Y typed?

- 1] 5 2] 4 3] 6 4] 9

15. After the set of instructions is over at Step 7 what is the value of X