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 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 prod	uction in 1997?			
	1] 350,000	© 2] 360,000	0 3] 364,000	0 4] 365,000	
2.	What was the tota 1] 1,900,360	l sales revenue in 1 ② 2] 2,066,680		<pre>0 4] 2,135,500</pre>	
3.	What was the adve 1] 112,545		in 1998? © 3] 135,000	0 4] 123,345	
4.	What were the unit 1 427,000		3] 360,000	0 4] 365,000	
5.	What was the tota 1] 84.39 ac	_	◎ 3] 79 . 69lac	◯ 4] cannot be determir	ied
				\	

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 editor can work only on Monday afternoons, Tuesday mornings and Wednesday the will be day. The entertainment editor can work all day Monday and Wednesday only.

- 6. If the managing editor cannot edit until ach of the others has completed atleast a full day of work, when is the earliest the managing editor can work?
 - ① 1]Wednesday afternoon

2|Friday morning

31Monday 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?					
10. Who has got the second biggest sum? 10. If the second biggest sum? 10. If the second biggest sum? 10. If the second biggest sum? 11. If the second biggest sum? 12. If the second biggest sum? 13. If the second biggest sum? 14. If the second biggest sum? 15. If the second biggest sum? 16. If the second biggest sum? 17. If the second biggest sum? 18. If the second biggest sum? 19. If the second biggest sum? 19. If the second biggest sum? 10. If the second biggest sum? 10. If the second biggest sum? 10. If the second biggest sum? 11. If the second biggest sum? 12. If the second biggest sum? 13. If the second biggest sum? 14. If the second biggest sum? 15. If the second biggest sum? 16. If the second biggest sum? 17. If the second biggest sum? 18. If the second big					
11. What is the ratio of the amount with Chetan and Dolly?					
12. Who has got the least amount of money? 12. Who has got the least amount of money? 13. Who has got the least amount of money? 14. 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					
Step5: Increase X by 2 Step6: Goto Step2 Step7: Exit 13. When X=4 what value of Y is typed? 1 1 2 2 8 3 13 4 5 5 then what would be the last value of Y typed?					
14. Suppose Step5 is replace by 'Increase Wby 5' then what would be the last value of Y typed? 11. Suppose Step5 is replace by 'Increase by 5' then what would be the last value of Y typed? 12. Suppose Step5 is replace by 'Increase by 5' then what would be the last value of Y typed?					
15. After the set of instructions is ser at Step 7 what is the value of X					

● 1] 5								
Passage 5								
Five offices in Mumbai are run by five couples								
Husbands: Bala, Girish, Jai, Jayesh, Pratap								
Wife: Beena, Chand, Maya, Preeti, Sangeeta								
Surname: Bakshi, Joshi, Natwar, Parikh, Sahni								
Office: Air India, Jet, Ashiana, Indian Court, American Court								
• No husband shares a first name initial with his wife; Only one husband who is not Pratap has an identical initial for his first name and surname, but none of the wives does								
The Air India is run by Jai and his wife								
Girish and Maya are one of the couples								
Chand's husband is Mr. Natwar								
 Mrs. Joshi is the owner of Jet and Preeti is the owner of American Court; neither of them is married to Jayesh 								
 The office run by the Sahni has the word `Court' as part of its name 								
 The Ashiana is not run by Mr.Parikh whose wife is not Sangeeta 								
16. Jai's wife is								
■ 1] Preeti ■ 2]Chand ■ 3] Maya ■ 4] Beena								
17. The Sahni's run the restaurant								
■ 1] Ashiana ■ 2] Air India ■ 3] Jet ■ 4] Indian Court								
18. Which of the men has the surname Natwar								
19. Which of the following women is Mrs. Joshi 19. Preeti 2] Chandni 3] Sangeeta 4] Beena								
19. Which of the following women is Mrs. Joshi								
 1] Preeti 2] Chandni 3] Sangeeta 4] Beena Bala's surname is 1] Parikh 2] Joshi 3] Sangeeta 4] Sahni Passage 5 								
20. Bala's surname is								
◉ 1] Parikh © 2] Joshi								
Passage 5								
Five brothers have among the pair of twins who are neither the oldest nor the youngest. E								
/s								

Passage 5

is older than C but younger than B. D is younger than 3 brothers						
21.	21. The youngest is					
	◎ 1] A	© 2] B	◎ 3] C	◎ 4] D		
22.	One of the	twin pair is				
	◎ 1] B	© 2] C	◎ 3] D	◎ 4] E		
23.	The eldest i	is				
	1] A	© 2] B	◎ 3] C	○ 4] E		
24.	The one wh	o has as ma	ny elder brot	hers as younger brothers is		
	◎ 1] A	© 2] B	◎ 3] E	◎ 4] none of these		
25.	Who is the	fourth brothe	er			
	1] A	© 2] B	◎ 3] D	◎ 4] E		
Explanation to Paper I 1. In 1997 production is 91% of capacity installed						
	Therefore=91*400,000/100					
	=364,000					
	Hence [3]					
2. In	ventory for 1	1994				
Produ	uction in '94=	=330,000				
Sales=297,000 therefore inventory=33,000						
Inventory for 1995						
Production in 1995=340,000						
Sales in 1995=306,000 therefore inventory=34000						
Sales for 1996=360000						
Total sales=360000+34000+33000=427000 units						
Sales revenue=427000*4.84						
=2,066,680						
Sales in 1995=340,000 Sales in 1995=306,000 therefore inventory=34000 Sales for 1996=360000 Total sales=360000+34000+33000=427000 units Sales revenue=427000*4.84 =2,066,680 Hence [2]						
- KitiP ⁵						
			•			

3. Production in 1998=456000 units

Sales revenue=433200*6=2599200

Therefore advt. expense=2599200*4.33%

=112,545

Hence [1]

4. Inventory for 1994

Sales=433200 units

Production in '94=330,000

Sales=297,000 therefore inventory=33,000

Inventory for 1995

Production in 1995=340,000

Sales in 1995=306,000 therefore inventory=34000

Sales for 1996=360000

Total sales=360000+34000+33000=427000 units

Hence [1]

5. Market share=80/4=20%

Sales revenue=345,800*5=1729000

Therefore market =1,729,000/0.20=86.45lac

Hence [2]

6. **Answer is [2]**

7. **Answer is [1]**

The following table can easily explain questions 8 to 12

Cheta Redo.6 Names Arti Dolly Amount Rs38.4 Rs33.4

13. While X=0, Y=5, A=3, B=5

While X=2, Y=8, A=5, B=8

While X=4, Y=13, A=8, B=13

Hence [3]

14. While X=0, Y=5, A=3, B=5

If X is increased by 5 further values of Y will not be calculated.

Hence [1]

15. The last value of X is 4

Hence [2]

The following table explains the questions 16 to 20

Husband	Wife	Surname	Office
Jai	Beena	Parikh	Air India
Girish	Maya	Sahni	Indian Court
Jayesh	Chand	Natwar	Ashiana
Bala	Preeti	Bakshi	American Court
Pratap	Sangeeta	Joshi	Jet

16. [4] 17. [4] 18. [4] 19. [3] 20. [3]

The following table explains the questions 21 to 25

1 2 3 4 5 B E A D C

21. [3] 22. [4] 23. [2] 24. [1] 25. [3]

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