### **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.

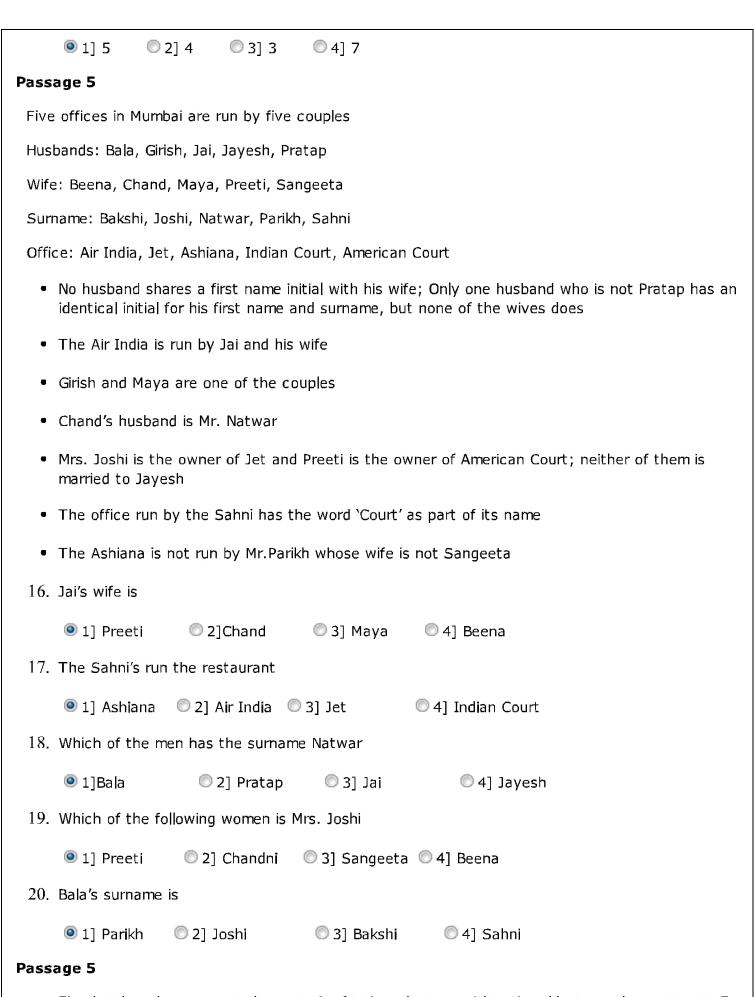
1.	what was the prod				
	1] 350,000	2] 360,000	0 3] 364,000	4] 365,000	
2.	What was the tota	l sales revenue in 1	996?		
	1] 1,900,360	© 2] 2,066 <b>,</b> 680	3] 1,890,560	4] 2,135,500	
3.	What was the adve	ertising expenditure	in 1998?		
	1] 112,545	© 2] 120,000	3] 135,000	<pre>0 4] 123,345</pre>	
4.	What were the unit	t sales in 1996?			
	1] 427,000	2] 450,000	3] 360,000	4] 365,000	
5.	What was the tota	l market in 1997?			
	9 1] 84.39lac	2] 86.45lac	© 3] 79 <b>.</b> 69lac	🔘 4] cannot be determi	nec

# 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							
<ul> <li>1]The news editor on Tuesday</li> <li>2]The managing editor on Friday</li> <li>3]The sports editor on Monday</li> <li>4]The entertainment editor on Thursday</li> </ul>							
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. Who has got the second biggest sum?  10. Who has got 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?							
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?  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							
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							
15. After the set of instructions is over at Step 7 what is the value of X							



Five brothers have among them a pair of twins who are neither the oldest nor the youngest. E

is older than to but younger than b. D is younger than 3 brothers							
21. The youngest is							
	<b>◎</b> 1] A	© 2] B	◎ 3] C	◎ 4] D			
22.	One of the	twin pair is					
	<b>◎</b> 1] B	© 2] C	◎ 3] D	◎ 4] E			
23.	The eldest i	s					
	<b>◎</b> 1] A	© 2] B	© 3] C	◎ 4] E			
24.	The one wh	o has as ma	ny elder brot	hers as younger brothers is			
	<b>◎</b> 1] A	© 2] B	◎ 3] E	○ 4] none of these			
25.	Who is the	fourth broth	er				
	<b>◎</b> 1] A	© 2] B	© 3] D	◎ 4] E			
_	anation to F 1997 produc	-	of capacity i	nstalled			
	Therefore=91*400,000/100						
	=364,000						
	Hence [3]						
2. In	2. Inventory for 1994						
Production in '94=330,000							
Sales	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						
Hend	Hence [2]						

3.Production in 1998=456000 units

Sales=433200 units

Sales revenue=433200\*6=2599200

Therefore advt. expense=2599200\*4.33%

=112,545

## Hence [1]

4. Inventory for 1994

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

Names Arti Banti Chetan Dolly Amount Rs38.4 Rs11.6 Rs16.6 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
В	Е	Α	D	С

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