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 pro	duction in 1997?		
	1] 350,000	2] 360,000	3] 364,000	@ 4] 365,000
2.	What was the tot	al sales revenue in 1	996?	
	1] 1,900,360	🖱 2] 2,06 <mark>6,68</mark> 0	3] 1,890,560	© 4] 2,135,500
3.	What was the adv	vertising expenditure	in 1998?	
	◉ 1] 112,545	© 2] 120,000	03] 135,000	0 4] 123,345
4.	What were the un	it sales in 1996?		
	<pre> 1] 427,000 </pre>	2] 450,000	03] 360,000	C 4] 365,000
5.	What was the tota	al market in 1997?		
	1] 84.39lac	© 2] 86.45lac	© 3] 79.69lac	

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?
 - I]Wednesday afternoon
 2]Friday morning
 - © 3]Monday morning © 4]Thursday afternoon

and disorder		n afford to lose his	e whole day in order to prevent confusion available time, then the only possible
I]The ne	ws editor on Tuesday	C 2]The man	naging editor on Friday
③ 3]The sp	orts editor on Monday	Ø 4]The enter	tainment editor on Thursday
Passage3			
have got as much		olly put together.	s100 with them. Arti and Banti together Arti has got more money than Banti. more than Dolly.
8. Who has go	t the most money?		
🖲 1] Arti	© 2] Dolly	③ 3] Chetan	© 4] Cannot be determined
9 How much d	loes Banti have?		
I] 12.03		0 3] 13.3	④ 4] None of these
528 ASS 100 1	and the second sec	20	
	t the second biggest s		
🖲 1] Arti	② 2] Chetan	© 3] Dolly	Ø 4] Banti
11. What is the	ratio of the amount w	ith Chetan and Dol	ly?
1] 2:1	0 2] 1:2	🔘 3] 1:3	© 4] 1:4
12. Who has go	t the least amount of r	money?	
I] Banti		© 3] Chetan	Ø 4]Dolly
Passage4			
The following is th	e list of instructions to	be followed	
Step1: x=0 A=2	B=3		
Sten2: If X<5 th	en do Steps3-6 othen	vice Sten7	
22		163	
20202332222	place A by B replace t	s by t	
Step4: Type Y			
Step5: Increase	X by 2		
Step6: Goto Ste	p2		
Step7: Exit			
13. When X=4 v	vhat value of Y is type	d?	
1] 12	© 2] 8 © 3] 13	© 4] 5	
14. Suppose Sto	ep5 is replace by 'Incre ② 2] 4 © 3] 6	ease X by 5' then v	what would be the last value of Y typed?
5	5 IS	1.5	
After the se	t of instructions is ove	er at Step 7 what i	s the value of X

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 sumame, 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	. 1	lai'	s	wi	fe	is
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🖲 1] Preeti	© 2]Chand	🔘 3] Maya	© 4] Beena
17. The Sahni's ru	in the restaurant		
I] Ashiana	© 2] Air India	© 3] Jet	64] Indian Court
18. Which of the r	men has the suma	ame Natwar	
I]Bala	© 2] Pratap	© 3] Jai	© 4] Jayesh
19. Which of the f	following women is	s Mrs. Joshi	
I] Preeti	© 2] Chandni	🖱 3] Sangeeta	© 4] Beena
20, Bala's surname	e is		
🖲 1] Parikh	🖱 2] Joshi	🖱 3] Bakshi	© 4] Sahni
Passage 5			
Five brothers	have among them	a pair of twins wh	no are neither the oldest nor the youngest. E

		WWW	.sarkariresults.io
is older th	an C but you	unger than B.	. D is younger than 3 brothers
21. The young	gest is		
🖲 1] A	© 2] B	© 3] C	© 4] D
22. One of the	e twin pair is		
	© 2] C	© 3] D	© 4] E
23. The eldes	t is		
🖲 1] A	© 2] B	© 3] C	© 4] E
24. The one v	vho has as m	nany elder bro	others as younger brothers is
🖲 1] A	© 2] B	© 3] E	[0 4] none of these
25. Who is the	e fourth brot	her	
@ 1] A	© 2] B	© 3] D	◎ 4] E
Explanation to 1. In 1997 prod	uction is 919	1000	y installed
	=91*400,00	0/100	
=364,000			
Hence [3			
2. Inventory fo	r 1994		
Production in '9	4=330,000		
Sales=297,000	therefore inv	entory=33,0	00
Inventory for 1	995		
Production in 19	995=340,000		
Sales in 1995=3	806,000 then	efore invento	ory=34000
	360000		
Sales for 1996=			
Sales for 1996= Total sales=360		-33000=4270	00 units
	0000+34000+		00 units
Total sales=360	0000+34000+		00 units

3.Production i	n 1998=456000 unit	5			
Sales=433200	units				
Sales revenue	=433200*6=259920	0			
Therefore adv	t. expense=259920	0*4.33%			
=112,545					
Hence [1]					
4. Inventory f	or 1994				
Production in '	94=330,000				
Sales=297,000) therefore inventor	y=33,000			
Inventory for	1995				
Production in	1995=340,000				
Sales in 1995=	=306,000 therefore i	inventory=34000			
Sales for 1996	5=360000				
Total sales=36	50000+34000+33000)=427000 units			
Hence [1]					
5. Market sha	re=80/4=20%				
Sales revenue	=345,800*5=17290	00			
Therefore mar	ket =1,729,000/0.2	0=86.45lac			
Hence [2]					
6. Answer is	[2]				
7.Answer is [1]				
The following	table can easily e	explain questions 8	to 12		
Names	Arti	Banti	Chetan	Dolly	
Amount	Rs38.4	R\$11.6	R\$16.6	R\$33.4	
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]					

Note: The Information Provided here is only for reference. It May vary the Original.

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 Jai	Wife Beena	Paril	name	Office Air India
Girish	Maya	Sah		Indian Court
Jayesh	Chand	Naty		Ashiana
Bala	Preeti	Baks		American Court
Pratap	Sangeeta	Josh		Jet
16. [4] 17. [4]	18. [4] 19. [3 <mark>] 2</mark> 0.	[3]		
The following	table explains the	questions 21 t	o 25	
1	2 E	3	4 D	5 C
в	E	A	D	C
21. [3] 22. [4]	23. [2] 24. [1] 25.	[3]		