CHANDIGARH ADMINISTRATION FINANCE DEPARTMENT

(SAS Establishment Branch)

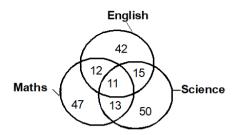
POST: INVESTIGATOR

QUESTION BOOKLET AND ANSWER KEY

SERIES (A)

FOR RECRUITMENT TEST HELD ON 17-08-2025

1. The diagram shows the number of students who got distinction in three subjects in a total of 500 students.



What is the percentage of student who got distinction in at least two subjects.

- A) 51%
- B) 35.8%
- C) 10.2%
- D) 8%
- 2. A, B, C, D & E play a game of cards. A says to B, "if you give me 3 cards, you will have as many as I have at this moment. While if D takes 5 cards from you, he will have as many as E has ." A and C together have twice as many cards as E has. B and D together also have the same number of cards as A and C have taken together. If all together they have 150 cards, how many cards has C got?
 - A) 28

- B) 29
- C) 31
- D) 35
- 3. 51% of a number is 714 what is 28% of that number.
 - A) 351
- B) 364
- C) 378
- D) 392
- 4. $\frac{1}{8}$ part of a pencil is black. $\frac{1}{2}$ part of the remaining is white. If the remaining part is blue and

the length of the blue part is $3\frac{1}{2}$ cm, find the length of the pencil.

- A) 6 cm
- B) 7 cm
- C) 8 cm
- D) 9 cm

- 5. If $m = 7 4\sqrt{3}$ Then $(\sqrt{m} + \frac{1}{\sqrt{m}}) = ?$
 - A) 3

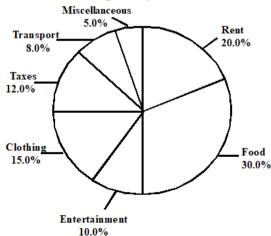
B) 4

C) 8

D) 9

Direction: (Q. No. 6-8) The percentage expenditure distribution of a certain family having total monthly expenditure of Rs. 13,000 only is as follows

Percentage of Expenditure on Different Items



- 6. How much are its annual taxes
 - A) Rs. 1560
- B) Rs. 1040
- C) Rs. 18720
- D) Rs. 12480

- 7. How many degrees should there be in the central angle showing Rent, taxes and transport combined?
 - A) 100
- B) 75
- C) 90
- D) 144
- 8. How much more money per month is spent by the family on food as compared to the transport?

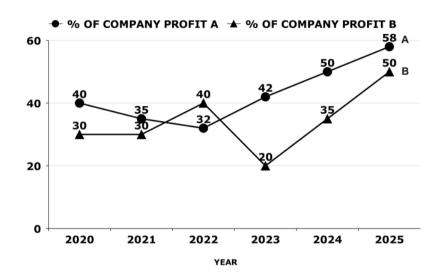
 A) 2880

 B) 2860

 C) 2840

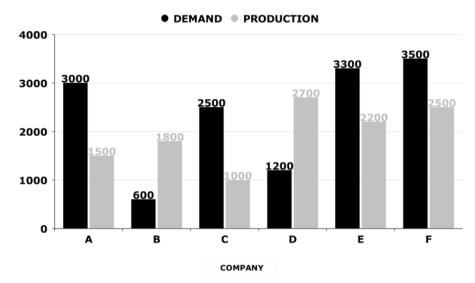
 D) 2900

Direction: (Q. No. 9-10) The percent profit earned by two companies A and B are as follows



- 9. If the incomes of two companies in year 2021 were equal, what was the ratio of expenditure of B to that of A
 - A) 1:2
- B) 26:27
- C) 4:5
- D) 100:67
- 10. What was the percent increase in percent profit for the company B from year 2022 to 2023?
 - A) 10%
- B) -50%
- C) 2.8%
- D) 3.2%

Direction:(Q.11-12) The demand and production of six automobiles companies A, B, C, D, E, & F in the month July 2025 is as follows

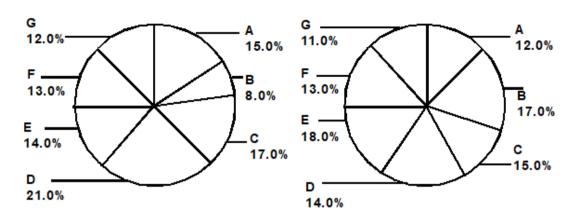


- 11. What is the ratio of companies having more demand than production to those having more production than demand?
 - A) 1:2
- B) 3:3
- C) 2:1
- D) 1:1
- 12. What is the difference between the average demand and average production of the six companies taken together?
 - A) 2400
- B) 2000
- C) 600
- D) 400

Direction: (Q.13-14) There are seven institutions A, B, C, D, E, F, and G having total number of students in Arts and Science as 5700 and 6300. Percentagewise distribution of students studying in Arts and Science in seven institutions is as follows:

%AGE OF STUDENTS IN ARTS

%AGE OF STUDENTS IN SCIENCE



- 13. What is the ratio between the number of students studying Arts and Science in institute D?
 - A) 14:19
- B) 7:9
- C) 19:14
- D) 21:19
- 14. How many students from institute B and D together study Science?
 - A) 1953
- B) 1955
- C) 1965
- D) 1945

Direction: (Q.15-16) The following table represents number of employees employed by three companies A, B and C in different positions:

POSITIONS	COMPANY	COMPANY	COMPANY
	A	В	C
FINANCE MANAGER	250	150	250
ASSTT. FIN. MANAGER	450	300	350
I.T. MANAGER	200	350	350
ASSTT. I.T. MANAGER	400	650	500
MARKETING MANAGER	700	650	550
ASSTT. MARKETING MANAGER	700	750	650

- 15. What is the respective ratio of employees in the position of Asstt. Manager IT in the Company A. B and C.
 - A) 8:10:13
- B) 8:13:10
- C) 8:12:11
- D) 8:12:13
- 16. What is the percentage of number of marketing employees to the total number of employees in all the companies?
 - A) 48.5%
- B) 48.6%
- C) 48.8%
- D) 49%

Direction: (Q.17-18) The following table shows the % of Graduates & % of Post graduate students in seven institutes A, B, C, D, E, F & G. The total number of graduate students= 38,100 & the total number of post-graduate students=27,900.

NAME OF THE INSTITUTE	PERCENTAGE OF GRADUATES	PERCENTAGE OF POST-GRADUATES
А	19	7
В	10	16
С	11	13
D	13	12
E	18	15
F	14	20
G	15	17

17.

18.

19.

20.

21.

22.

23.

24.

С	11		13		
D	13		12		
E	18		15		
F	14		20	20	
G	15		17		
What is the total number D?	of students studying	at Gr	raduate and Post-	Graduate 1	levels in institute
A) 8400	B) 8646	C)	8548	D) 8301	
What is the nearest ratio institute E and graduate		of stu	idents studying a	t Post grac	duate level in
A) 6:7	B) 8:9	C) 4	4:5	D) 3:4	
What will be angle between	een the two hand of a	a cloc	k at 9 : 50?		
A) 5^0	B) 8 ⁰	C) 1	5 ⁰	D) 90^{0}	
A worker may claim which he drives his own km did he travel by taxi?			•		
•	B) 30	C) 2	0	D) 10	
In a series of 50 observa- the series	tions the algebraic su	ım of	deviations from 2	25 is -12, v	what is the mean of
	B) 37	C) 2	24.76	D) 25.24	
The mean marks of 75 st of section A are having r B?					
	B) 30.	C) 3	35	D) 45	
The combined mean mar and that of girls are 64, t					rks of boys are 71
	B) 4:3	C) 1	-	D) 2:1	
A student found the mea the correct mean?	n of 50 items to be 3	8.6. I	He took one item	as 40 inste	ead of -40. What is
	B) 37	C) 4	40.2	D) 42	

25.	The sum of the deviations of a certain number of observations measured from 4 is 72 and the sum of deviations of the same measured from 7 is -3. What is the number of observations and their mean?						
	A) 25 and 6	.88	B) 15 and 7	C) 10	and 17	D) 12 and	13
26.	by aeroplane	at a speed 30 Kms.p.	n entails travellin of 350 Kms.p.h. h. What is the av B) 31.71 Kms.p	, 4500 Kms. verage speed	by ship at 25 of Mr. X for t	Kms.p.h. and	20 Kms. by car ney?
Director 27 to	30.		he basis of follo		nation , give t	he answers to	questions from
	Profits	100-199	200-299	300-399	400-499	500-599	600-699
	No. of firms	25	75	100	60	25	15
27.	A) 166.85		e profit distribut B) 265.02	C) 26	6.17	D) None of	these
28.	The 5 th Deci	le of the pro	ofit distribution i B) 345.5	is C) 34	6	D) 349.5	
29.	The 75 th pero A) 435	centile of th	ne profit distribut B) 441.17	tion is C) 44	1.67	D) 440.67	
30.	The mode of A) 337.96	the given s	series is B) 338.46	C) 34	0	D) 330	
31.		_	the students faile 6, 5, 4, 6, 5, 3 an B) 8				who failed the
32.	,	which mea	sure of central to B) Median	,		,	
33.	In a symmetr A) 32		oution the quartil B) 34				ode of the series?
34.	of that series	_	30 and 36 as me		· ·		alue of median
	A) 32		B) 20	C) 32.		D) 33	
35.	•	values of	bution, the mean quartiles Q ₁ an B) 50 and 70	d Q 3		re 60 and 15, r D) Indetern	-
36.	If in a given mean will be				e having nega	tive values, the	en the geometric
	A) Negative		B) Indeterminat	e C) pos	sitive	D) zero	
37.	(H.M.) is	-		ean (A.M.), C			Harmonic mean
	A) A.M. \geq H C) G.M. \geq H				<i>'</i>	$G.M. \ge H.M.$ $G.M. \ge A.M.$	
38.	difference in	-	es?		•	_	times that of the
	A) 4		B) 10	C) 3.5	,	D) 2.5	

39.	The standard deviation new standard deviation A) 29		ions is 2	25. If 4 is added C) 21	d to each	n item of the series, to D) 25	then the
40.	If the variance and cothe series will be	,	ation of	,	and 75°	•	ean of
	A) 20	B) 30		C) 300		D) 200	
41.	If N=10, arithmetic Mocoefficient of variation	?	m of the	•	e items i		value of
10	A) 3	B) 9	1. 1	C) 9%	11	D) 25%	414
42.	An urn contains ten ba replacement, what is th A) 0.5		_		ilis are d	rawn one by one wi D) 4/9	tnout
43.	Two dices are thrown identical numbers	,	e proba	,	numbers	,	p are not
	A) 6/36	B) 30/36		C) 25/36		D) Impossible	
44.	A bag contains 8 red, 5 replacement. The prob A) 64/225	_			_	e ball each is made v D) 31/75	with
45.	Three coins are tossed	,	ahility c	,	et one te	,	
43.	A) 1/8	B) 3/8	-	C) 7/8		D) 1	
46.	A class consists of 10 What is the probability A) 1/3	that a student of B) 1/2	chosen a	at random is a l C) 2/3	boy or h	as blue eyes? D) 1/6	•
47.	Tickets are numbered to What is the probability A) 1/5	_	-			a ticket is drawn at 1 D) 1/6	andom.
48.	Sum of quartiles= 140 Median = double of the What is the value of co A) 0.096	e difference of o	quartiles	ifference of qu s C) 1.043	artiles=	46 D) -0.196	
49.	The mean of a certain mean becomes 80. Wh	number of item at was the num		If two more ite ems in the orig		nd 54 are to the data a?	, the
50	A) 20	B) 22		C) 40	. ما مدمنا	D) 15	
50.	Which of the following shoe-size?	g would be all a	ppropri	ate average for	determi	illing the average	
	A) Arithmetic Mean	B) Median		C) Mode		D) Harmonic Mear	1
51.	 What is a Firewall in the A) A Physical separation B) A sophisticated Anterior C) A sophisticated Anterior impossible to subvertient D) A collection of soft the risk to a single 	on of a machine ti-Virus Softwa ti-Virus Algorit ert ware & hardwa	e from the free from the free from the free from the free free free free free free free fr	he Internet so t lemented direct conents, placed	tly in ha	ardware, making it	reduces
52.	A handheld computer A A) Personal Digital As C) Planned Digital Ass	ssistant.	B) Per	s for: sonalized Digi ctical Digitized			

- In MS-WORD, which of the following is used to create newspaper style columns? 53.
 - A) Format Columns

B) Insert Table

C) Format Tab

- D) Insert Text Columns
- In Microsoft Power Point, a is a special effect used to introduce a slide during 54. a slide show.
 - A) Customer animation
- B) Transition
- C) Portrait
- D) Slide sorter view

- Which of the following statements is correct?
 - A) An excel file may contain only one pivot table.
 - B) An excel workbook may contain multiple worksheets
 - C) An excel workbook may contain only one pivot table
 - D) An excel spreadsheet may contain multiple workbooks

Directions: For the next TWO questions (56 & 57), consider the following MS-EXCEL worksheet:

	А	В	С	D	Е
1	No.	Exam I	Exam II	Total	
2	1	80	60	140	
3	2	70	50	120	
4	3	40	30	70	
5	4	30	32	62	
6	5	85	85	170	
7	6	65	80	145	
8	7	72	96	168	
9	8	25	32	57	
10	9	90	78	168	
11	10	25	40	65	

- The formula =IF(B10 + C10 > 100, IF(D10 > 100, "A", "B"), "C") in cell D12 will result in 56.
 - A) A
- B) B
- C) C
- D) AC
- The formula =SUMIF(B2:B11, "<50", D2:D11) in cell D13 will result in 57.
 - A) 120
- B) 254
- C) 90
- D) 244
- A virus type that is capable of shifting from one computer to another without user interaction is 58. known as a
 - A) Worm
- B) Trojan
- C) Logic bomb
- D) Boot sector

59. Consider the following lists:

List I

List II

- 1. Linux
- P. Text File Editor
- 2. Mozilla Firefox
- Q. Image File format
- 3. Notepad
- R. Operating System
- 4. JPEG
- S. Web Browser

The correct match is:

- A) $1 \rightarrow R, 2 \rightarrow S, 3 \rightarrow P, 4 \rightarrow Q$ C) $1 \rightarrow R, 2 \rightarrow P, 3 \rightarrow S, 4 \rightarrow Q$
- B) 1 \rightarrow S, 2 \rightarrow R, 3 \rightarrow Q, 4 \rightarrow P
- D) 1 \rightarrow 0, 2 \rightarrow S, 3 \rightarrow P, 4 \rightarrow R
- With regard to computer memory, which of the following statement (s) is/are TRUE? 60.
 - P: Read Only Memory (ROM) is 'volatile' memory.
 - Q: Random Access Memory (RAM) is 'volatile' memory.
 - R: Secondary Memory is 'volatile' memory.
 - A) Ponly
- B) Q only
- C) P and Q only
- D) P and R only

Answer Key : A-series (17-08-2025)

Q.No.	Ans	Q.No.	Ans	Q.No.	Ans
1	C	21	С	41	D
2	A	22	В	42	D
3	D	23	A	43	В
4	C	24	В	44	D
5	В	25	A	45	C
6	C	26	В	46	C
7	D	27	С	47	C
8	В	28	D	48	В
9	В	29	В	49	D
10	В	30	A	50	C
11	C	31	D	51	D
12	D	32	C	52	A
13	C	33	C	53	A
14	A	34	A	54	В
15	В	35	В	55	В
16	С	36	В	56	A
17	D	37	В	57	В
18	A	38	D	58	A
19	A	39	D	59	A
20	D	40	A	60	В