$MODEL\ QUESTION\ PAPER-3$

1. Flowers in a basket double	<u> </u>	an nour, the basket is	Iuii. The basket		
would have been half full afterminutes.					
(a) 30	(b) 45	(c) 58	(d) 59		
2. The average of nine number	ers 6, 2-x, 8, 3x-2, 5, 9	, 2, 7, 18 is 11. Then x	equals:		
(a) 20	(b) 5.5	(c) 13	(d) 22		
3. If $\log Y + 3 \log x = 2$, then	Y equals:				
	(b) $2/x^3$	(c) $100/x^3$	(d) $x^3 - 100$		
4. If $\log_4(x^2 + x) - \log_4(x + x)$	1) = 2, x equals:				
(a) 2	(b) 4	(c) 5	(d) 16		
(a) 2 (625) ^{6.25}	$(25)^{2.60}$				
5. When simplified $$	equals:				
$(625)^{6.75}$	$.(5)^{1.20}$				
(a) 625	(b) 6.25	(c) 25	(d) 0.25		
6. If HCF and LCM of 77, 99	and x are respectively	11 and 3,465 then x is	s equal to:		
(a) 33	(b) 44	(c) 55	(d) 66		
7. In order to compute 0.15%	of a number, the num	ber must be multiplied	by:		
(a) 0.0015	(b) 0.015	(c) 0.15	(d) 1.5		
8. p is 95% of q. What percent	stage of p is q?				
(a) 95%	(b) 105%	(c) 105.3%	(d) 195%		
9. The sum of two numbers is	s 10; their product is 20	O. The sum of their rec	iprocals is:		
(a) 2	(b) ½	(c) 1/10	(d) 1/30		
10. If $4^x - 4^{x-1} = 24$, then $(2x)^{x-1} = 24$) ^x equals:				
(a) 1	(b) 125	(c) $\sqrt{5}$	(d) $25\sqrt{5}$		
11. $[(2^2)^2]^{-1}$, when simplified,	, equals:				
(a) 16	(b) -16	(c) - 0.0625	(d) 0.0625		
12. If a Solid block is cut by l	norizontal plane, the cr	oss-section is a circle.	And if it is cut by a		
vertical plane, the cross-section	on is a square. That blo	ock is a:			
(a) Sphere	(b) Cone	(c) Cylinder (d) No	ne of the above		
13. A dealer buys a lot of 50	chairs for Rs 5,000 but	20 of them are damag	ged. He decides to sell		
each damaged one at three-fourths the price of the normal one. To make a profit of 35% on the					
whole, the selling price of a chair should be:					
(a) Rs 135	(b) Rs 150	(c) Rs 160	(d) Rs 175		
14. A sum of money at compo	ound interest, compour	nded annually, amount	s in 2 years to Rs		
2,704 and in 3 years to Rs 2,8					
(a) 8%	(b) 6%	(c) 4%	(d) 5%		
15. If a sum of money double	itself in 16 years at a	certain rate of interest,	it will become		
times itself in 8 years at die sa	ame rate.				
(a) 1(1/2)	(b) 1(1/4)	(c) 1(1/3)	(d) 1(1/5)		
16. A clerk borrowed a sum of	of money at compound	interest from a credit	society. He had to pay		
it back in two equal yearly instalments of Rs 4,410 each. If the rate of interest was 5% per					
annum, the money borrowed by him was:					
(a) Rs 8,820	(b) Rs 8,400	(c) Rs 8,000	(d) Rs 8,200		
17. If Sunil Kumar travels at	the rate of 3 kmph, he				
travels at the rate of 4 kmph, he reaches his office 15 minutes earlier. The distance of his office is					
km,					

(a) 3.5	(b) 7	(c) 2	(d) 6
18. A sample of 50 litres of g	lycerine is found to be	adulterated to the exte	ent of 20%. How much
pure glycerine should be add	ed to bring the percent	age of impurity down t	to 5%?
(a) 60 litres	(b) 40 litres	(c) 150 litres	(d) 190 litres
19. A cistern without lid con	taining 8,000 litres of v	water measures externa	lly 3m 3dm ×2m 6dm
\times lm 1 dm, the sides being 5	cm thick. The thicknes	s of the bottom of the	cistern is:
(a) 2.5 cm	(b) 1 dm	(c) 1 cm	(d) 5 cm
20. Raman Kumar has a gard	en 30 m long and 20 m	n broad. He decides to	increase the length by
6 m. By how many metres sh	ould he increase the br	reath so that the garden	remains similar in
shape?			
(a) 4 m	(b) 6 m	(c) 22 m	(d) 24 m
21. The area of a right triang	le is S sq cm and one o	f the sides containing t	the right angle is 1 cm.
The altitude on the hypotenu	se is:		
(a) 25/t cm		(b) $(S^2 - t^2)$ cm	
(c) $\sqrt{[t^2 + (4S^2)/t^2]}$ cm	1	(d) $2St \sqrt{[t^4 + (4S^2)/t]}$	cm
22. The side of a square is 2		onstructed on each side	of the square. The
area of the whole figure in di	n^2 is:		
(a) $4 + 2\pi$	(b) $4 + 4\pi$	(c) 4π	(d) 8π
23. In a chess board, eight ro	oks are to be placed su	ch that no two rooks a	re in the same row or in
the same column. In how ma	ny ways the eight rook	s can be placed in the	chess board?
(a) 64	(b) 5040	(c) 40320	(d) 16777216
24. A and B are two single di	igit number. If A73B92		en
(a) $A = 9$ and $B = 6$		(b) $A = 6$ and $B = 9$	
(c) $A = 5$ and $B = 1$		(d) $A = 4$ and $B = 2$	
25. There are two outlet taps.			
water is drained in 45 minute		-	
drained in 1 hour. If the tap I	3 is opened and the tap	A is closed, how long	will it take to drain the
tank?			
(a) 2 hrs.	(b) 3 hrs.	(c) 2 hrs. 30 min.	• •
26. There are 100 students in	•	~	•
passed whereas in the second	_	=	
(a) 12	(b) 14	(c) 43	(d) 51
27. Which of the following s			
A) If a perfect square is c	<u> </u>	•	
B) If a perfect square is d	•		5
C) If a perfect cube is div	•		
D) If a perfect cube is div	•	•	
(a) A and B only	(b) A and C only	(c) B and D only	(d) C and D only
28. Which of the following the	nree measures cannot b	_	
(a) 2 cm, 3 cm, 4 cm		(b) 3 cm, 4 cm, 5 cm	
(c) 4 cm, 8 cm, 5 cm		(d) 7 cm, 11cm, 15 cr	
29. How many times 7 appear	_		
(a) 17	(b) 18	(c) 19	(d) 20
30. If $f(x)$ denotes the greates		qual to the cube root of	f 3x, then the sum of
the series $\sum f(n)$ where n varie		() 2 0	(1) 20
(a) 13	(b) 19	(c) 20	(d) 39

In the following questions each questions each letter has rupee value following some uniform pattern. Find the cost of the given items. $\{ \text{ Hints } L = \text{Rs } 24, R = \text{Rs.} 36, W = \text{Rs.} 46 \}$

31. If SOFA is valued at Rs. 82, find the cost of CAMERA.

(a) Rs. 84

(b) Rs. 72

(c) Rs. 82

(d) Rs. 92

32. If MOBILE costs Rs. 110, what would a FLOPPY costs?

(a) Rs. 168

(b) Rs. 178

(c) Rs. 152

(d) 208

33. If CLOCK costs Rs.86, what would a TREE cost?

(a) Rs. 92

(b) Rs. 96

(c) 106

(d) Rs. 84

Directions for questions 34 to 37:

If in a certain language PARAMOUNT is coded as 921026812711 and DRIVE is coded as 3105124 how would the following words coded in that language?

34. DIVINE

(a) 5312574

(b) 3513574

(c) 5743513

(d) 1335574

35. VNARMED

(a) 127410645

(b) 97210654

(c) 89729642

(d) 127210643

36. VIDEO

(a) 135348

(b) 98542

(c) 54389

(d) 1352884

37. ARRIVE

(a) 2885124

(b) 210105134

(c) 3665134

(d) 2771312

Directions for questions 38 to 41:

In the following questions one term is missing from the series, Tick the option that you think fits in the blank space to complete the series.

38. AGM, BHN, (----), DSP, EKQ, FLR

(a) OIC

(b) CIO

(c) IOU

(d) LXR

39. BL4, CM9, DN16, (---), FP36, GQ49

(a) DF64

(b) EO49

(c) EO25

(d) OE52

40. DEBc, JKHi, (---), VWTu,

(a) QPOn

(b) XWUv

(c) PQNo

(d) UTRn

41. ABBA, EFFE, IJJI, (---), QRRQ, UVVU

(a) MNMN

(b) XNNM

(c) NMNM

(d) KLLK

Directions for Ouestions 46 to 53:

A basket contains certain number of apples. Anita takes 1 less than 50% of the apples. Then Banu takes 1 less than 50% of the left out. Then Chitra takes 1 less than 50% of the balance. Finally only apples are left out in the basket.

46. How many apples were there in the beginning in the basket?

a) 10

b) 16

c) 18

d) 20

47. How many apples that Banu has taken?

a) 4

b) 3

c) 2

d) 1

48. The next term in the sequence 1, 4, 10, 20, 35, 56, 84, 120, is

a) 165		b) 175		c) 180		d) 192
49. Among the fe	our groups o	f letters, three ar	re alike	in some way v	while or	ne is different. Find the
one which is diff		,		J		
a) CSUF		b) LBDO		c) PGJS		d) UMOX
50. If SHIP is wi	ritten as PFF	*	may w	,		u) 01/1011
a) DQCV		b) ERDX	iliay w	c) YLXQ		d) ZMYR
, -		U) EKDA		c) ILAQ		u) ZWH K
51. Find the odd		1. \ II A TEED		JUOTDEM		1) I OWNII
a) TESRI		b) HATFER		c) HOTREM	420	d) LOVINI
52. Insert the mis	ssing number		368	,	438	
a) 242		b) 323		c) 324		d) 342
53. In the follow	ing list, one	of the words is 1	my pas	s word. If 1 we	ere to te	ll you any letter of my
pass word, then	you would be	e able to tell me	the nur	mber of vowels	s in my	pass word. Which is
my pass word?						-
a) CASH		b) SNOW		c) TIME		d) IDEA
Directions for q		,		,		
_			nt is oi	ven followed l	w two o	conclusions. Give
answer	nowing ques	tions, a statemen	111 13 g1	ven, ronowed t	Jy two t	conclusions. Give
	aducion I fol	1orus				
(a) if only cor						
(b) if only con						
(c) if either I						
(d) id neither		ows				
(e) if both I ar						
42. Statement	: Morning	walks are good t	for hea	lth.		
Conclusion	: I. All he	althy people go	for mo	rning walks.		
		• • • • • • • • • • • • • • • • • • • •		C		
	II. Evening walks are harmful					
43. Statement : Company X has marketed the product. Go ahead, purchase it, if price and						
quality are your considerations.						
Conclusion	-	_				
44 64 4 4		ice of the produc			٠,	
	44. Statement : The best way to escape from a problem is to slove it.					
Conclusion : I. Your life will be dull if you don't face a problem						
	II. To escape from problems, you should always have some solutions with you					
45. Statement : A neurotic is a non-stupid person who behaves stupidly						
Conclusion: I. Neuroticism and stupidity go hand in hand.						
II. Normal persons behave intelligently.						
		1	,	5		
Directions for C	Duestions 46	to 53:				
Directions for Questions 46 to 53: A basket contains certain number of apples. Anita takes 1 less than 50% of the apples. Then						
Banu takes 1 less than 50% of the left out. Then Chitra takes 1 less than 50% of the balance.						
			ien Cin	ilia takes 1 less	s man J	0% of the balance.
Finally only appl	ies are lett of	it in the basket.				
46.33						
46. How many a	pples were th	_	ining ir			
a) 10 b) 16 c) 18 d) 20						
47. How many apples that Banu has taken?						
a) 4		b) 3		c) 2		d) 1
48. The next term	n in the sequ	ence 1, 4, 10, 20	0, 35, 5		is	
a) 165	1	b) 175	-	c) 180		d) 192
•						

49. Among the four groups of letters, three are alike in some way while one is different. Find the					
one which is different					
	b) LBDO	c) PGJS	d) UMOX		
50. If SHIP is written as PEFM					
, -	b) ERDX	c) YLXQ	d) ZMYR		
51. Find the odd man out					
a) TESRIS	b) HATFER	c) HOTREM	d) LOVINI		
52. Insert the missing number	243 (250) 368	317 () 438			
a) 242	b) 323	c) 324	d) 342		
53. In the following list, one of	of the words is my pas	s word. If 1 were to tel	ll you any letter of my		
pass word, then you would be	able to tell me the nu	mber of vowels in my	pass word. Which is		
my pass word?					
a) CASH	b) SNOW	c) TIME	d) IDEA		
For Questions 54 and 58:					
54. In the above figure, how n	nany squares are there	2?			
a) 16	b) 20	c) 24	d) 28		
55. In the above figure, how n	nany triangles are ther	re?			
a) 72	b) 84	c) 96	d) 100		
56. Find the missing figure: 3,	, 7, 17, 39, 85,?	,	,		
	b) 189	c) 147	d) 255		
57. Find the missing pair of le	etters: IR LO ? RI	•	,		
	b) ON	c) NO	d) RO		
58. Which of the figures 1, 2, 3, 4 given in the answers will logically fit into the next figure in					
the following sequence?					
8 1					
59. A man pointing to a photo	oranh says "The lady	in the photograph is n	ny nenhew's maternal		
grandmother." How is the lady			• •		
sister?	y in the photograph re	saced to the man 5 515th	or who has no other		
	b) sister-in-law	c) mother	d) mother-in-law		
,		,	,		
60. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?					
•	b) grandmother	c) mother-in-law			
d) sister of father-in-la	, •	e) Maternal anut			
, , , , , , , , , , , , , , , , , , ,					
61. The first mechanical computer designed by Charles Babbage was called a) Abacus b) Analytical Engine c) Calculator d) Processor					
62. If 4A9C in hexadecimal system is x in octal system then x is					
UZ. II TAZO III IICAAUUUIIIAI S	you in io a iii uctai sys	WIII UIWII A 18			

a) 43254	*	c) 11247	d) 74211	
63. The parity bit is added fo				
, ,	b) indexing	c) error-detection	d) controlling	
64. ROM is composed of				
		c) microprocessors		
65. A micro computer has pr	imary memory of 6401	K. What is the exact nu	mber of bytes	
contained in this memory?	1) (77.00)	\	1) 64 216	
	b) 655,360		d) 64 x 2 ¹⁶	
66. Which of the following is	s the most appropriate	unit for measuring the	storage capacity of a	
hard disk?	1 \ 1 .	\ 1.*.	-IX 4 1 4	
a) byte	b) megabyte	c) bit	d) terabyte	
67. Find the odd man out	L \ .' 1.0'1		1)	
	b) optical fibre		d) microwaves	
68. Which one of the followi				
*	b) a converter		d) an EPROM	
69. Which of the following h			d) EDDOM	
a) ROM	b) RAM		d) EPROM	
70. What name is given to the	e collection of facts, it	ems of information or o	data which are related	
in some way?	1.) :			
		ler c) directory inform	nation (d) database	
71. Who is considered to be		_	d) Alan Turina	
		c) Allen Newell	d) Alan Turing	
72. Which of the following n		c) Bubble Memories	4) CD DOM	
a) Floppy Disk	b) Core Memories	c) Bubble Melliones	u) CD-KOM	
73. The only things moving a	around inside a comput	ter are		
a) bytes	b) electrons	c) 1's and 0's	d) words	
74. Find the odd man out				
a) altavista	b) google	c) java	d) lycos	
75. What is me name of the r	network topology in wl	nich there are bi-directi	onal links between	
each possible node?				
a) Ring			d) Mesh	
76. Which of the following n	night prevent a prograr	n from being modified	in the future?	
a) logic errors		b) lack of program do	cumentation	
c) syntax errors		d) pseudocode		
77. What will be the value re	turned by calc when it	is invoked with $n = 10$)?	
a) 10	b)45	c)55	d)90	
78. The temperature of 32° C	<u>-</u>			
a) 0°F	b) 89.6° F	c) 100° F	d) 115.2° F	
79. A gallon is approximatel	y equal to			
a) 3.5 litres	b) 4.0 litres	c) 4.55 litres	d) 6.25 litres	
80. DNS refers to				
a) Data Number Sequence		b) Domain Name System		
c) Disk Numbering S	-	d) Digital Network Se	ervice	
81. Each high level-language				
a) assembly language		b) machine language		
c) programming language		d) none of these		

82.	A is a combination	nal circuit that co	nverts binary infor	mation :	firm n input lines to a	
max	ximum 2n unique output	lines				
	a) decoder	b) encoder	c) multiple:	ker	d) none of these	
83.	Magnetic tape is a	storage device	2			
	a) sequential access	b) random acce	ss c) direct acc	cess	d) none of these	
84.	The speed represented w	ith which data ca	n be transferred fro	om the d	lisk to CPU is	
	a) seek time				d) none of these	
85.	The register which holds	s the address of th	e location when ar	n instruc	tion is read out or written	
in t	he memory is					
	a) PC	b) MAR	c) MBR		d) none of these	
86.	contain a micro	processor and int	· · · · · · · · · · · · · · · · · · ·		,	
	a) Dumb terminals	•	_	nt termin	nal d) none of these	
87.	APLis	,	, &		,	
	a) a programming lan	nguage	b) software	packag	e	
	c) Operating system	6 6	d) none of t	_		
88.	A compiler or an interpr	eter is itself a pro			uage called	
	a) Assembly languag			b) Machine language		
	c) Host language	,•	d) none of t		5-	
89	A long and complex pro	gram is split into	,		ams known as	
0).	a) modules	gram is spire into	b) structure			
	c) top-down design		d) bottom-u		•	
90	, 1	nta and instruction			d the primary memory is	
<i>7</i> 0.	a) Job management				nt d) none of these	
91	provides graphica	,	•	ilageillei	it dy none of these	
<i>)</i> 1.	a) MS DOS		c) WINDO	WS	d) none of these	
92.	The base number in a nu	ımber system is				
	a) Radix	b) Track	c) Bottom		d) none of these	
93	Which is NOT considered	,	,		<i>a,</i> none or mest	
,	a) low equipment co	_		and rea	liability	
	c) speed			b) accuracy and realiabilityd) increased storage capacity		
94.	Which number system d	o we use in our d		_	o cup world	
<i>,</i>	a) octal	b) analog	c) binary		d) decimal	
95	Which is the "mega flop		c) officially		a) decimal	
,,,	a) high capacity data		b) large sto	rage des	vice	
	c) one million flooting		, 0	rage ae i		
	d) measurement of p		•			
96	ASCII data representation	• •	pacity			
70.	-	b) morse code	c) scientific nota	ition	d) letters of the alphabet	
07	Eight consecutive bits ar	,	c) scientific flota	itiOii	d) letters of the arphabet	
91.	a) BUS	b) byte	c) logic gat	0	d) binary digit	
08	ISA, EISA, and MICA a	, •	, ,	C	d) billary digit	
90.	a) parallel processors			hucac	d) sarial printer	
00	UNIX is a	s of tape unives	c) types of	ouses	d) serial printer	
フブ ・		h) hardwara	a) A nuinta		d) CDI i	
100	a) software	b) hardware	c) A printer		d) CPU	
100	LET is a(n) statea) assignment		c) condition	no1	d) unconditional	
	aj assigiiiitelli	U) ICIIIAI K	c) conuntion	ıaı	a) unconditional	