MODEL QUESTION PAPER 2

	1. In 1970, it cost \$12 to purchase 100 pounds of fertilizer. In 1990 it costs \$34 to						
_	_		price of 100 pounds of	f fertilizer increased how			
	•	veen 1970 and 1990?					
	1) 1.20	2)2.20	3)3.40	4)22			
2.	A train 700 meter	long is running at 72	km/ hour. If it crosse	s a tunnel in 1 minute the			
l	ength of the tunn	el is					
1	1) 500 m	2) 700 m	3) 1200 m	4) 1900 m			
3. <i>A</i>	A car driver's inc	ome consists of his sal	lary and tips. His sal	ary is \$50 a week. During			
(one week his tips	were 5/4 of his salary	. What fraction of his	income for the week came			
	from tips?						
	1) 4/9	2)1/2	3)5/9	4)5/8			
4.	The ratio of A's a	nd B's age is $3:5$ and	the sum of their age	is 80 years. The ratio of their			
	nge after 10 years		G	·			
	1) 1:2	2) 2:3	3) 3:4	4) 4:5			
	,	•	*	tudents are right handed			
		· · · · · · · · · · · · · · · · · · ·		male students are right			
	nanded?	8 1 8	,	0			
	1) 7	2) 9	3) 12	4) 13			
	*	,	,	f the circle is increased by			
	1) 0.36%	2) 3.6%	3) 6%	4) 12.36%			
	/	,	t is the sum of the nur	,			
	1) 4.5	2) 24	3) 27	4) 30			
	·	· ·	<i>'</i>	,			
	8. The cost price of 20 articles is the same as selling price of 15 articles. The profit percentage in the transaction is						
_	1) 25	2) 30	3) 33(1/3)	4) 50			
		,	, , ,	,			
	9. The perimeter of a rectangular field is 480 m and ratio between the length and breadth is 5:3. The area of the field is						
	1) 1350 m ²		3) 54000 m ²	4) 5.4 km^2			
			*	w many days will it feed 12			
10.	chickens?	riceu win reeu 10 cine	Actis 101 54 days. 110	w many days will it feed 12			
	1) 36	2) 37	3) 53	4) 81			
	,		*	each week. If there are 7			
11.		•	books he binds each d				
	1)1	2) 49	3) 25	4) 35			
12	•	,	,	,			
14.				th the least number have 9			
			boy with the greatest				
12	1) 27	2) 33	3) 57	4)81			
13.	-	· ·	many times will it fla				
1.4	1) 225	2) 250	3) 360	4) 450			
14. 24-carat gold is pure gold. 18-carat gold is 3/4 gold, 20-carat gold is 5/8 gold. The ratio of pure gold in 18-carat gold to pure gold in 20-carat gold is							
	_			_			
	1) 5:8	2) 9: 10	3) 15 : 24	4) 8 : 5			
15.	15. 640 acres = 1 square mile 1 acre = 4840 square yards						
	1 square mile =		a) a 005 -00	1) 200 F 50			
	1) 16/121	2) 121/16	3) 3,097,600	4) 309,760			
16.		_	of the following is alw	· ·			
	1) $AP = PB$	2) AP > PB	3) PB > AP	4) $AB > AP$			

17.	If $x < y$ and $a = b$	o, then				
	•	2) $x + a < y + b$	3) $x + 3$	a > v + b	4) $x + a = y$	
18.		which of the following		•	,	
	1) $b + a > 2a$		3) $a - b$		4) $a^2 > b^2$	
19.	,		,		of angle L. Which of the	
	following is true	-				
	1) KM > KL		3) KL -	< KM	4) KM + LM < KL	
20.	If r is the radius	of the circle and x its	circum	ference, then	area of the circle is	
	1) $x^2/4\Pi^2$	2) $x^2/4\pi$	3) $x^2/4$		4) πx^2	
21.	To represent a fa	amily budget on a circ	cle grap	h, how many	degrees of the circle should	
	be used to repres	sent an item that is 20	% of th	e total budget	t?	
	1) 20	2) 36	3) 60		4) 72	
22.	What is the dista	nce from point A (3,	4) to po	int B (-3,-4)?		
	1) 0	2) 5	3) 10		4) 13	
23.	Line joining poin	nt (-4,0) with point (0,	, 5) with	point (4, 0) w	vill form	
	1) a circle	2) a right triangle	3) a rec	ctangle	4) an isosceles triangle	
24.		he midpoint of line O	PC, wh	ere O is at ori	gin $(0, 0)$. The coordinates of	
	C are					
	1) (2, 1)	2) (4, 8)	3) (8, 2)	•	4) (8, 4)	
25.	_	e are in ratio 1:3:2. H		y degrees are	_	
	1) 30	2) 50	3) 60		4) 90	
26.		se the new water proj				
	-		_	_	ly three years ago, opposed	
	_			_	half a million commuters	
	, •				argument in favour of the	
			•		ke the argument above?	
		-			illing to recognize the fact that	
					by that of any other industry	
	,	ontrol law is a misguid				
	-	every sportsman club a	_			
	_				principal sponsors have voted	
	_		-	-	oduced in the last twenty years	
		that over 60% of the		•		
	school bond iss	sue; cast your vote with	i the cor	icernea majori	ty on Election Day	
Ο	agtions 27 20.					
_	estions 27 - 30:	and there was af ac	ina fuan	m aitre A ta ai	try C. Dry many of a builded the	
		•	_	-	ty C. By way of a bridge the	
		-			ne two cities is a distance of 10	
miles and the toll is 100 Rupees for the vehicle and driver plus 10 Rupees for each passenger. A two-lane highway without tolls goes east for 30 miles to city B and then 20 miles in a northwest						
	ection to city C.	illout tolls goes east to	1 30 1111	les to city b ar	id then 20 miles in a northwest	
un	ection to city C.					
27	Which of the fell	owing is the shortest	routo fr	om oity P to c	sity C2	
41.		toll-free highway to c		2) The bridge	city C:	
	3) The tunnel	ton-nec ingnway to c	ity	4) The tunnel	or the Bridge	
28	′	nical way of going fro	m city		_	
4 0.	28. The most economical way of going from city A to city B in terms of tolls and distance, is to use the					
	1) Tunnel	2) Bridge	3) Brid	ge or tunnel	4) Toll-free highway	
29.	,	rives alone from city		-	- ·	
				J = J O =	O	

	deducts a percentage of employee pay for lateness. Which factor would most probably influence his choice of the bridge or the tunnel? 1) Whether his wife goes with him 2) Scenic interest of each route						
		ons on the road, bridge		*	est of each foute		
	4) Saving of 25 R		and the	tuillici			
		-	dge and	the tunnel, th	e chief factors would be		
	I. traffic and roa			, , ,			
	II. number of pa	ssengers in the car					
	III. location of o	ne's home In the cente	er or ou	tskirts of one	of the cities		
	IV. Desire to sav	-					
	1) I only	2) II only	3) II an	d III only	4) I and II only		
_	estions 31 -36:						
			cessarily	y in that order	, stand for seven consecutive		
inte	egers from 1 to 10						
	D is 3 less that						
	B is the midd	ne term less than B as C is gro	ooton the	n D			
	G is greater t		eater tha	ill D			
31	The fifth integer						
J1.	1) A	2) C	3) D		4) E		
32.	,	eater than F as which i	,	is less than G	., 2		
	1) A	2) B	3) C		4) D		
33.	If $A = 7$, the sum	· · · · · · · · · · · · · · · · · · ·	,		,		
	1) 8	2) 10	3) 12		4) 14		
34.	A - F = ?						
	1) 1	2) 2	3) 3		4) 4 .		
35.	_	s much greater than	C as C i	s greater than	E. T can be written		
	as $A + E$. What i		3 \ 4				
26	1) 2	2) 3	3) 4	4 41 4	4) 5		
	The greatest pos value of D?	sible value of C is hov	v much	greater tnan t	ne smallest possible		
	1) 2	2) 3	3) 4		4) 5		
	1) 2	2) 3	3) 4		4) 3		
Qu	estions 37 - 40:						
	1) A causes B	B or C, but not both					
		nly if B occurs					
	,	f B or C occurs					
	·	nly if C occurs					
	•	nly if E or F occurs					
	6) D causes G or H or both						
	7) H occurs if E occurs						
8) G occurs if F occurs 27. If A occurs, which may occur?							
	37. If A occurs, which may occur? I. F and G						
	II. E and H						
	III. D						
	1) I only			2) II only			
	3) III only			•	II and III, but not both		
	· · ·			,	, 		

38.	If B occurs, which				
	1) F and G	2) D and G	3) D	4) G and H	
39.	If J occurs, which	n must have occurre	ed?		
	1) E	2) Both E and F	3) Either B or C	4) G	
40.	Which may occur	r as a result of a cau	use not mentioned?		
	I. D	II. A	III. F		
	1) I only	2) II only	3) I and II only	4) II and III only	y
Qu	estions 41 – 44:				
Eig	tht varsity baseball	players (G, H, J, K,	L, M, N, O) are to be	honoured at a spec	ial ceremony.
Thi	ree of these players	(H, M and O) are all	lso varsity football pla	yers. Two of them	(K and N) are
also	o basketball players	s on the varsity team	. In arranging the seat	s it was decided tha	t no athlete in
two	sports should be s	seated next to anothe	r two-sport athlete.		
41.	Which of the follo	owing combination	is possible in order t	o have the arrange	ement
	of seat assignmen		_	_	
	1) H G K J	2) H K J L	3) J K M N	4) J L H K	
42.	Which of the foll	owing cannot sit ne	xt to M?		
	1) G	2) J	3) G and J	4) K	
43.	,	,	are two vacant seats	on either side of N.	Which two
	athletes may occ				
	1) G and K	2) G and L	3) J and H	4) L and	O
44.	,		ment, K should sit be	· · · · · · · · · · · · · · · · · · ·	
	1) G and H	2) J and M	3) L and N	4) J and	L
Ou	estions 45 - 50:	_, -, -, -, -, -, -, -, -, -, -, -, -, -,	-	.,	_
_		cal 58 of the hospita	al workers is forming	a five-person tea	m to leaflet a
			vo persons to distribut		
			efence squad. A, B and		
			are possible member		
			ne team. E prefers to v		
•			erence are respected	•	•
	1) A,B,C,D,F	2) A,C,D,E,J	_		E.G. H
46	, , , , , ,		eam and all preferen		
70.	be true?	a member of the t	cum und un preferen	ces are respected;	winen mast
	1) B must be a le	afletter	2) C must be a iear	fletter	
	3) F must go	arretter	,	defence personnel:	may go
47	,	nerconnel is nossih	ole if all preferences a	*	may go
T /•		fletters, C as speaker	_	as leafletter	
		fletter, F and H on de	,		
10			,		
40.		_	references are respect II. F is on defence		
	I. C is the sp		11. F is on defence		
		or G is on defence	2) III1	4) I and	III1
40	1) I only	2) II only	3) III only	4) I and	•
49.	•	erent possible teams	can the organizer as	ssemble, if all prefe	erences are
	respected?	2).0	2) 0	4) 10	
	1)5	2)8	3) 9	4) 13	
50. Which person can be part of the smallest number of different possible teams, if					
	-	rences are respected			
	1) A	2) B	3) C	4) E	
51.	One byte is equi				
	1) 16 bits	2) 4 bits	3) 8 bits	4) 32 bit	S

52.	Which gate is a single	Integrated circ	cuit?			
	1) Gate	2) Mother Boa	ard 3)	Chip		4) CPU
53.	Compilers and Interp	reters are them	selves			
	1) High level language			Program	IS	4) Mnemonics
54.	Conversion of an octal					
	1) 90 ₁₀	2) 85 ₁₀		07		4) 99 ₁₀
55.	The binary number 10	,	,			,
	1) 22	2) 37				4) 132
56.	A computer system ha		,			,
	1) 65536		3)			4) 65530
57	The logical bitwise op		3)	00000		1, 05550
07.	1) bitwise AND		R 3)	hitwise (∩R	4) all of the above
58	A variable that holds					
30.	1) integer	2) pointer			-	4) memory variable
5 0	, .		3)	Constant		4) memory variable
39.	A subscript of an arra		2)	1		4)
~ 0	1) any +ve or -ve value			+ve vai	ue	4) a zero
60.	A union consists of a r			. 1		
	1) occupy the same space		2)			
	3) are grouped next to ea		•			
61.	When a computer is fi		r restarted	d, a spec	ial type of	absolute loader,
	called ais exec	uted				
	1) loader	2) linker	,			4) none of the above
62.	In an absolute loading	scheme, which	loader fur	iction is	accomplis	hed by assembler
	1) Reallocation	2) Allocation	3)	Linking		4) Loading
63.	The action of parsing	the source prog	gram into t	the prop	er syntheti	ic classes is known as
	1) syntax analysis		2)	lexical a	analysis	
	3) interpretation analysis		4)	general	syntax ana	lysis
64.	An algorithm is best d	lescribed as			•	
	1) A computer language		2) A step	by step	procedure f	or solving a problem
	3) A branch of mathemat	tics	4) All of t		-	
	Which of the following					ge Instructions into
	machine language?	56		· 		.8
	1) System software		2) Applic	ation sof	ftware	
	3) An operating environ	ment			et war c	
66	A system program th			-	am in mai	n memory ready for
	cution is?	iat sets up an	CACCULADIO	c progra		ii iiiciiioi y ready 101
	1) Assembler	2) Linker	3)	Loader		4) Compiler
	A compiler is	2) Lilikei	3)	Loader		4) Complici
	-	nrograma into r	2022021.02	l neanara	tham from	avagution
	1) A program that places		•			
	2) A program that automa				-	
	3) Program that accepts a	a program writte	en in a nign	level la	nguage and	produces an object
	program			• 4	••.	1. 1
	4) A program that appear	rs to execute a s	ource progr	ram as 11	it were ma	chine language
68 .	Process is					
	1) Program in High level		on disk			f main memory
	3) A program is execution	on		4)	A Job in se	condary memory
69.	C is					
	1) An assembly languag	<u>g</u> e	2)	A third	generation	high-level language
	3) A machine language		4)	All of the	he above	

70.	Operating system					
1	1) Links a program with the subroutines it references					
2	2) Provides a layered, user friend	lly interface				
3	3) Enables the programmer to dr	aw a flow chart				
	All of the above					
	Which of the following is a se	erious problem o	of file management s	systems?		
) Difficult to update	_	2) Lack of data indep	•		
	B) Data redundancy and program		-			
	A data dictionary does n	-				
) Where data is located		2) the size of the disk	storage device		
	3) Who owns or is responsible for					
	The number of layers in TCP					
	1) 4,7 2) 5,7		3) 5, 6	4) 6, 7		
	Which of the following file			, ,		
	uits between the local and rem	_	ols use I el allu e	stablishes two virtual		
) FTP 2) TF		B) TELNET	4) NFS		
	is need to build dynami		<i>'</i>	7) 111 5		
) HTML 2) CG		3) Java	4) All of the above		
	A device that converts digital		<i>'</i>	+) All of the above		
	C	_	B) Both (1) and (2)	1) A block		
	Which of the following is an a		, , , , , ,			
	Resistance to data theft		2) Fast data transmiss			
			1) Few transmission			
	Low noise level					
	78. A Protocol is a set of rules governing a time sequence of events that must take place?					
	1) Between peers 2) Between modems 4) Agrees on interfere					
	Between an interface		1) Across an interface			
19.	A network which is used for sl		iware and nardware	among several users		
1	owning microcomputers is cal) I ANI	4) \ \ \ \ A N \		
	1) WAN 2) MA	IN 3	B) LAN	4) VAN		
	Web pages are written using) IIDI	4\ 11TN 41		
	1) HTTP 2) FTI		B) URL	4) HTML		
81.	Ten minutes after a plane leav			e plane is 40 miles		
	away. What is the average spe	_	_	1) 600		
	2) 240			4) 600		
82.	An automobile passes city X a		•	-		
	from city Y, what is the avera	-	_			
	2) 30		*	4) 120		
83.	Two cars start towards each o	_	_			
	miles an hour and the other tr			apart, in miles, will		
	the two cars be after 4 hours of		_			
)20 2)40	3)75	4)100			
	How long would a car travelli n	ig at 30 miles pe	r hour take to cover	a distance of 44 feet?		
	(1 mile = 5280 feet)					
			3) 1 minute	4) 7.7 minutes		
85.	What is the maximum numb	oer of glass tun	nblers each with a	circumference of 4π		
	nes, can be					
	placed rectangularly on a table	e 48"x 32"?				
1) 36 2) 48	3	3) 92	4) 96		

86.	86. The numerator and denominator of a fraction are in the ratio 2:3. If 6 is subtracted					
	from the numerator the result will be a fraction that has a value 2/3 of the original					
	fraction. The numera	ator of the original fr	action is?			
	1) 4	2) 6	3) 9	4) 18		
87.	A train covers the dis	tance between two cit	ties in h hours arriving	g 2 hours late. What		
	rate would permit the	e train to arrive on sc	hedule?			
	1) h-2	2) d/h - 2	3) $d/(h-2)$	4) dh-2		
88.	A box is made in the fe	orm of a cube. If a se	cond cubical box has i	nside dimensions three		
	times those of the first	box, how many tim	es as much does the se	econd box contain?		
	1) 27	2) 3	3) 6	4) 9		
89.	Nancy would like to					
	important television p	program. She has 40 -	· minute assignments i	n each of the five		
			at which she can start	and still complete her		
	homework in time for					
	1) 6.30 RM.	2) 6.40 PM.	3) 7.10 RM.	4) 7.20 RM.		
90.	A rectangle L inches le	ong and w inches wid	le is made 3 inches lon	ger. The area is		
	increased by					
	1) 3w	2) 31	3) 3wl	4) $3(1 + w)$		
91.	City x is 200 miles ea	st of city y and city z	is 150 miles directly n	orth of city y. What is		
	the shortest distance	between x and z?				
	1) 507	2) 175	3) 200	4) 250		
92.	When 6 gallons of ga	_	_	from 1/4 to 5/8. The		
	total capacity of the g	_				
	1) 12	2) 14	3) 30	4)16		
		-	•	e third of others study		
	9	0 do not study Tamil	or French. How man	y students are there in		
thi	s school?					
	1) 360	2) 550	3) 900	4) 1350		
94.	A sports jacket mark					
	_	_		The cost to the dealer is		
~ -	1) \$29	2) \$30	3) \$32	4) \$40		
95.	A man covers d miles	s In hours. At that ra	te how long (in hours)	will it take him to		
	cover m miles?	0) 1/	O /1	AS 1.7		
0.0	1) dmt	2) md/t	3)mt/d	4) dt/m		
96.	Mr. John can mow h		ter 2 hours it begins t	o rain. What part of		
	the lawn is left un mov		2) /0	4) (0) (0		
0=	1) (x-2)/x	2) (2-x)/x	3) x/2	4) $(x - 2)/2$		
97.	Which of the following	ng has the greatest va		4) 1/2		
00	1) 0.3	$2) 0.3^{0.5}$	3) 2/5	4) 1/3		
98.	One wheel rotates one	•		ce every 5 minutes.		
	How often will both b	_		4) F 25		
	1) Every 6 min.	2) Every 12 min.	3) Every 17.5 min.	4) Every 35 min.		
	If $9x - 3y = 12$ and	- · · · · · · · · · · · · · · · · · · ·	· -	4) 7		
	1) -5	2) 8	3) 4	4) 7		
100. R and Tare points on straight line PQ on which PR = RT = TQ. What percent of PT is						
	PQ?	2) 500/	2) 66 1/ 0/	4) 1 5 00/		
	1) 1 ½ %	2) 50%	3) 66 ½ %	4) 150%		