TANCET 2004 MCA QUESTION PAPER

· · · · · · · · · · · · · · · · · · ·	12 to purchase 100 po				
purchase 100 pou	ınds of fertilizer. The	price of 100 pounds of	of fertilizer increased how		
many dollars bet	ween 1970 and 1990?				
1) 1.20	2)2.20	3)3.40	4)22		
2. A train 700 meter	r long is running at 72	2 km/ hour. If it cross	es a tunnel in 1 minute the		
length of the tunr					
1) 500 m		3) 1200 m	4) 1900 m		
,	,	,	lary is \$50 a week. During		
			income for the week came		
from tips?	<i>j</i>				
1) 4/9	2)1/2	3)5/9	4)5/8		
			is 80 years. The ratio of their		
age after 10 years	_	a one sum of onen age	is do yearst life racio of the		
1) 1:2	2) 2:3	3) 3:4	4) 4:5		
/	/	/	students are right handed		
	· · · · · · · · · · · · · · · · · · ·		male students are right		
handed?	the group are not rigi	it manucu, now many	male students are right		
	2) 0	2) 12	4) 12		
1) 7	2) 9	3) 12	4) 13		
			of the circle is increased by		
1) 0.36%	,	,	4) 12.36%		
_	6 numbers is 4.5, wha				
1) 4.5	2) 24	3) 27	4) 30		
	20 articles is the same	e as selling price of 15	articles. The profit		
percentage in the		2) 22 (1 (2)			
1) 25	2) 30	3) 33(1/3)	4) 50		
_	_	480 m and ratio betw	een the length and breadth i		
5:3. The area of		2	2		
	2) 13500 m^2				
10. A bag of chicker	n feed will feed 18 chi	ckens for 54 days. Ho	w many days will it feed 12		
chickens?					
1) 36	2) 37	3) 53	4) 81		
11. A man works fo	r 5 days a week and b	oinds 35 sets of books	each week. If there are 7		
books in a set, w	hat is the number of	books he binds each d	lay?		
1)1	2) 49	3) 25	4) 35		
12. Three boys have	e marbles in the ratio	19:5:3. If the boys w	ith the least number have 9		
marbles, how m	nany marbles does the	e boy with the greates	t number have?		
1) 27	2) 33	3) 57	4)81		
,	every 6 seconds, how	,	,		
1) 225	2) 250	3) 360	4) 450		
,	pure gold. 18-carat	/	,		
_	e gold in 18-carat gol		0		
1) 5:8	2) 9: 10	3) 15 : 24	4) 8 : 5		
,	,	,	,		
_	15. 640 acres = 1 square mile 1 acre = 4840 square yards 1 square mile = ? square yards				
1) 16/121	2) 121/16	3) 3 007 600	4) 300 760		
,	· ·	3) 3,097,600	4) 309,760		
10. POINT P IS ON IIN	e segment AB. Which	or the following is all	ways true:		

	1) AP = PB	2) AP > PB	3) PB > AP	4) AB > AP		
17.	If $x < y$ and $a = b$, then				
	1) $x + a = y + b$	2) $x + a < y + b$	3) $x + a > y + b$	4) $x + a = y$		
18.	If $a > b > 1$, then	which of the followin	g is true?			
	1) $b + a > 2a$	2) $a^2 < ab$	3) $a - b < 0$	4) $a^2 > b^2$		
19.	In a triangle KL	M the measure of ang	le M > the measure o	f angle L. Which of the		
	following is true?					
	1) $KM > KL$	2) KL > KM	3) KL < KM	4) KM + LM < KL		
20.	If r is the radius	of the circle and x its	circumference, 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	mily budget on a circ	cle graph, how many	degrees of the circle should		
	be used to repres	sent an item that is 20	% of the total budget	t?		
	1) 20	2) 36	3) 60	4) 72		
22.	What is the dista	nce from point A (3,	4) to point 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	rill form		
	1) a circle			4) an isosceles triangle		
24.	Point P (4, 2) is t	he midpoint of line O	PC, where 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.	Angles a, b and c	are in ratio 1:3:2. Ho	ow many degrees are	there in angle b?		
	1) 30	2) 50	3) 60	4) 90		
26.	Those who oppos	se the new water proj	ect claim to have the	best interests of this		
	community at he	art. Yet they are the	same people who, on	ly three years ago, opposed		
				half a million commuters		
	with fast, easy m	otoring every day. W	hat could be a better	argument in favour of the		
water project? Which of the following statements is most like the argument above?						
1) Those who oppose nuclear power are unable or simply unwilling to recognize the fact that the nuclear energy industry has a safety record unparalleled by that of any other industry						
2) The new gun control law is a misguided and dangerous proposal, which has been						
denounced by every sportsman club and gun-owners association in the state						
, , ,						
	3) We must fight the proposed antipornography statue, for its principal sponsors have voted against every major piece of women's rights legislation introduced in the last twenty years					
	4) The polls show that over 60% of the concerned parents in the state favour the school bond issue; cast your vote with the concerned majority on Election Day					
	School dolla 188	uc, cast your voic with	i die concerned majorn	ty on Election Day		
Ο	antiana 27 20.					

Questions 27 - 30:

For a motorist there are three ways of going from city A to city C. By way of a bridge the distance is 20 miles and the toll is 75 Rupees. A tunnel between the 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 direction to city C.

27. Which of the following is the shortest route from city B to ci	ty C?
--	-------

- 1) Directly on the toll-free highway to city
- 2) The bridge

3) The tunnel

- 4) The tunnel or the Bridge
- 28. The most economical way of going from city A to city B in terms of tolls and distance, is to use the

deducts a perce probably influe 1) Whether his 3) Traffic condi 4) Saving of 25 30. In choosing bet I. traffic and ro II. number of p	drives alone from city entage of employee parence his choice of the base with him tions on the road, bridg Rupees in tolls tween the use of the base conditions bassengers in the car one's home In the cen	y C to city A every wo y for lateness. Which oridge or the tunnel? 2) Scenic inte e and the tunnel ridge and the tunnel, t	factor would most erest of each route the chief factors would be		
IV. Desire to sa 1) I only	-	3) II and III only	4) I and II only		
Questions 31 -36: The letters A, B, C, D, E, F and G, not necessarily in that order, stand for seven consecutive integers from 1 to 10. D is 3 less than A B is the middle term F is as much less than B as C is greater than D G is greater than F					
31. The fifth integer 1) A	2) C	3) D	4) E		
	reater than F as which	,			
1) A	-, -	3) C	4) D		
33. If $A = 7$, the su		2) 12	0.14		
1) 8	2) 10	3) 12	4) 14		
34. A - F = ?	2) 2	3) 3	4) 4 .		
,	as much greater than	/	· /		
as A + E. What		c as c is greater tha	ii E. I can be written		
1) 2	2) 3	3) 4	4) 5		
· · · · · · · · · · · · · · · · · · ·	ossible value of C is ho				
value of D?					
1) 2	2) 3	3) 4	4) 5		
2) F occurs 3) D occurs 4) E occurs 5) J occurs 6) D causes	B or C, but not both only if B occurs if B or C occurs only if C occurs only if E or F occurs G or H or both if E occurs if F occurs				

II. E and H

III. D		_				
1) I only			(2) II only			
3) III only	_	4) I and III or II and III, but not both				
38. If B occurs, which						
,	2) D and G	3) D		4) G and I	. 1	
39. If J occurs, which						
	2) Both E and F	3) Either		4) G		
40. Which may occur			ntioned?			
	II. A	III. F				
· ·	2) II only	3) I and	II only	4) II and I	II only	
Questions 41 – 44:						
Eight varsity baseball	• •		*		-	
Three of these players		•				
also basketball players				it was decid	led that no athlete in	
two sports should be so						
41. Which of the follo	wing combination	is possible	in order to	have the ar	rangement	
of seat assignmen	=					
,	2) H K J L	3) J K M	I N	4) J L H K		
42. Which of the follo	owing cannot sit ne	ext to M?				
1) G	2) J	3) G and	IJ	4) K		
43. Before all athlete	s are seated there	are two vac	cant seats on	either side	e of N. Which two	
athletes may occu	upy these seats?					
1) G and K	2) G and L	3) J and H	4)	L and O	
44. To have the prop	er seating arrange	ement, K sh	ould sit bety	ween		
1) G and H	2) J and M	3) L and N	4)	J and L	
Questions 45 - 50:	,			ŕ		
The organizer of Loc	al 58 of the hospit	tal workers	is forming	a five-perso	on team to leaflet a	
nearby hospital. The te	eam must contain to	wo persons	to distribute	leaflets, one	e speaker to address	
the workers who stop	and a two-person d	efence squa	d. A, B and	C are possil	ole leaf letters; C, D	
and E are possible spe						
prefers to work with ea						
45. Which is a possil		_		-		
-				G = 4	A, C, E, G, H	
46. If A is chosen as						
be true?			•	•	,	
1) B must be a lea	afletter	2) C mu	ist be a ieafle	etter		
3) F must go		/			onnel may go	
47. Which choice of	personnel is possil	,			, ,	
	letters, C as speake	_		-		
	letter, F and H on d					
48. If A and B are le			*		true?	
I. C is the spe	-		on defence	u , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	r G is on defence	110 1 15 (on delenee			
1) I only	2) II only	2	(a) III only	4)	I and III only	
, ,	rent possible team				-	
respected?	ent possible team	s can the Vi	Samzer asse	ciiivic, ii al	. Preferences are	
1)5	2)8	3	5) 9	4)	13	
50. Which person car	,		,	/		
20. Then person ca	se part or the sh	vi IIUIII	~ CI GI GIIICI	THE POSSIBL		

		4 10	0		
•	e's preferences	-	•	3) C	4) E
1) A	to is a surivaland	2) B		3) C	4) E
	te is equivalent			2) 0 1.:4-	4) 22 1-14-
1) 16 bi		,	•40	3) 8 bits	4) 32 bits
	gate is a single			2) Cl :	4) CDI I
1) Gate	1 T	2) Mother Box		3) Chip	4) CPU
-	ers and Interp		iselves	0) B	
, -	level language			3) Programs	4) Mnemonics
	sion of an octa		to its d	ecimal number is	
1) 90_{10}		2) 85 ₁₀		3) 87 ₁₀	1) > > 10
55. The bin	ary number 10)0110010 is equ	ual to	hexadecimal	numbers
1) 22		2) 37		3) 41	4) 132
56. A comp	uter system ha			ll have Its last addre	ess as
1) 65536	-)	2) 64000		3) 65535	4) 65530
57. The log	ical bitwise ope	erator is			
1) bitwise	e AND	2) bitwise XO	R	3) bitwise OR	4) all of the above
				f another object is c	
1) integer				3) constant	
/ -	ript of an arra	· •		,	, ,
	-	•	er	3) +ve value	4) a zero
, .	consists of a n	,		,	.) # 2010
				2) must be structure	25
		-		4) all of the above	25
, -	-		-	rted, a special type	of absolute loader
	is exect		Ji i Csta	rteu, a speciai type (or absolute loader,
1) loa				3) hootetran loader	4) none of the above
/					
				function is accompl	
	cation			3) Linking	, ,
		tne source pro	gram ir		etic classes is known as
1) syntax	-			2) lexical analysis	1 .
· -	etation analysis	•• •		4) general syntax ar	naiysis
_	rithm is best d	escribed as	2 \ 4		0 1: 11
	puter language				e for solving a problem
,	ch of mathemat		/	of the above	
		g might be used	d to con	vert high level langı	uage Instructions into
	e language?				
1) Systen	n software		2) Ap	plication software	
3) An operating environment		4) An interpreter			
66. A syste	m program th	at sets up an	execut	able program in m	ain memory ready for
execution is	?				
1) Assem	oler	2) Linker		3) Loader	4) Compiler
67. A com	oiler is				· -
1) A prog	ram that places	programs into r	nemory	and prepare them fro	om execution
2) A program that automate the translation of assembly language into machine language					
3) Program that accepts a program written in a high level language and produces an object					
program					
		rs to execute a s	source n	rogram as if it were r	nachine language
4) A program that appears to execute a source program as if it were machine language 68 . Process is					

 Program in High level languages kept on disl A program is execution 	k2) Contents of main memory4) A Job in secondary memory				
69. C is1) An assembly language	2) A third generation high-level language				
3) A machine language	4) All of the above				
70. Operating system					
1) Links a program with the subroutines it refer	ences				
2) Provides a layered, user friendly interface					
3) Enables the programmer to draw a flow cha	ırt				
4) All of the above	e ee 1				
71. Which of the following is a serious problem					
1) Difficult to update 2) Data and an arrangement damaged an arrangement of the control of the c	2) Lack of data independence				
3) Data redundancy and program dependency					
72. A data dictionary does not provide inf					
, , , , , , , , , , , , , , , , , , ,	2) the size of the disk storage device4) How the data is used				
3) Who owns or is responsible for the data 73. The number of levers in TCP/IP model and	, , , , , , , , , , , , , , , , , , ,				
73. The number of layers in TCP/IP model and 1) 4,7 2) 5,7					
, ,	3) 5, 6 4) 6, 7				
74. Which of the following file transfer protocircuits between the local and remote server?	ocois use ICF and establishes two virtual				
1) FTP 2) TFTP	3) TELNET 4) NFS				
75is need to build dynamic web document	,				
1) HTML 2) CGI	3) Java 4) All of the above				
76. A device that converts digital signals to analysis					
1) A packet 2) A modem	3) Both (1) and (2) 4) A block				
77. Which of the following is an advantage to us					
1) Resistance to data theft	2) Fast data transmission rate				
3) Low noise level	4) Few transmission errors				
78. A Protocol is a set of rules governing a time					
1) Between peers	2) Between modems				
3) Between an interface	4) Across an interface				
79. A network which is used for sharing data, so					
owning microcomputers is called	neware and nardware among several users				
1) WAN 2) MAN	3) LAN 4) VAN				
80. Web pages are written using	3) 22111				
1) HTTP 2) FTP	3) URL 4) HTML				
81. Ten minutes after a plane leaves the airport,	,				
away. What is the average speed of the plane					
1) 66 2) 240	3) 400 4) 600				
82. An automobile passes city X at 9.55 A.M. an	,				
from city Y, what is the average rate of the automobiles in miles per hour?					
1) 10 2) 30	3) 90 4) 120				
83. Two cars start towards each other from poin					
miles an hour and the other travels at 35 miles an hour. How far apart, in miles, will					
the two cars be after 4 hours of continuous travelling?					
1)20 2)40 3)75	4)100				
84. How long would a car travelling at 30 miles p	per hour take to cover a distance of 44 feet?				
(1 mile = 5280 feet)					

1) 1 second	2) 2.64 second	,	/		
85. What is the maxim	num number of glass	tumblers each with	a circumference of 4π		
inches, can be					
	on a table 48"x 32"?				
1) 36	2) 48	3) 92	4) 96		
86. The numerator and					
	the result will be a fra		2/3 of the original		
	rator of the original fr				
1) 4	2) 6	3) 9	4) 18		
87. A train covers the d			g 2 hours late. What		
-	ne train to arrive on sc				
1) h-2	2) d/h - 2	3) d/(h-2)	4) dh-2		
88. A box is made in the					
	st box, how many tim				
1) 27	2) 3	3) 6	4) 9		
89. Nancy would like to	= '				
-	program. She has 40 -	_			
	What is the latest time	at which she can start	and still complete her		
homework in time fo	- U				
1) 6.30 RM.	2) 6.40 PM.	3) 7.10 RM.	4) 7.20 RM.		
90. A rectangle L inches	long 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 e		is 150 miles directly n	orth of city y. What is		
the shortest distanc	e between x and z?				
1) 507	2) 175	3) 200	4) 250		
92. When 6 gallons of g			from 1/4 to 5/8. The		
total capacity of the	gasoline tank (in gallo	ons is)?			
1) 12	2) 14	3) 30	4)16		
93. One half of the stu	dent body at school s	study French and one	e third of others study		
Tamil. The remaining 3	00 do not study Tamil	l or French. How mar	y students are there in		
this school?					
1) 360	2) 550	3) 900	4) 1350		
94. A sports jacket mar	ked \$48 Is offered at a	discount of 25% duri	ng storewide sale. At		
this reduced price th	ie dealer makes a prof	it of 20% of the cost. \Im	The cost to the dealer is		
1) \$29	2) \$30	3) \$32	4) \$40		
95. A man covers d mil	es In hours. At that ra	te how long (in hours)	will it take him to		
cover m miles?					
1) dmt	2) md/t	3)mt/d	4) dt/m		
96. Mr. John can mow	his lawn in x hours. Af	fter 2 hours it begins t	o rain. What part of		
the lawn is left un mo	owed?				
1) $(x-2)/x$	2) (2-x)/x	3) x/2	4) (x - 2)/2		
97. Which of the follow	ing has the greatest va	llue?			
1) 0.3	$2) 0.3^{0.5}$	3) 2/5	4) 1/3		
98. One wheel rotates once every 7 minutes, and another rotates once every 5 minutes.					
How often will both begin to rotate at the same time?					
1) Every 6 min.	2) Every 12 min.	3) Every 17.5 min.	4) Every 35 min.		

99. If 9x - 3y = 12 and 3x - 5y = 7, then 6x - 2y equals? 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?

1) 1 ½ %

2) 50%

3) 66 ½ %

4) 150%