TANCET MODEL QUESTION PAPER

1. Flowers in a basket double after every minute. In an	hour, the basket is full. TI	he basket
would have been half full afterminutes.		
(a) 30 (b) 45	(c) 58	(d) 59
2. The average of nine numbers 6, 2-x, 8, 3x-2, 5, 9, 2, (a) 20 (b) 5.5		s: (d) 22
3. If $\log Y + 3 \log x = 2$, then Y equals: (a) $2/3x$ (b) $2/x^3$ (c) $100/x^3$ 4. If $\log_4 (x^2 + x) - \log_4 (x + 1) = 2$, x equals:		, ,
4. If $\log_4(x^2 + x) - \log_4(x + 1) = 2$, x equals:	(4) // 100	
(a) 2 (b) 4 $(625)^{6.25}$ $(25)^{2.60}$	(c) 5	(d) 16
5. When simplified		
(a) 625 (b) 6.25 (c) 25	(d) 0.25	
6. If HCF and LCM of 77, 99 and x are respectively 11 a	and 3.465 then x is equal	to:
(a) 33 (b) 44		(d) 66
7. In order to compute 0.15% of a number, the number		(4) 55
(a) 0.0015 (b) 0.015 8. p is 95% of q. What percentage of p is q?		d) 1.5
(a) 95% (b) 105% (c) 105	5.3% (d) 195%	
9. The sum of two numbers is 10; their product is 20. The		
(a) 2 _. (b) ½	(c) 1/10 (d) 1/3	
10. If $4^{x} - 4^{x-1} = 24$, then $(2x)^{x}$ equals:	(c) 1/10 (d) 1/3	0
(a) 1 (b) 125	(c) √5	(d) 25√5
	(6) 13	(d) 23 13
11. [(2 ²) ²]-', when simplified, equals: (a) 16 (b) -16	(c) - 0.0625 (d) 0 0625
12. If a Solid block is cut by horizontal plane, the cross-		
plane, the cross-section is a square. That block is a:		it is out by a vortical
(a) Sphere (b) Cone	(c) Cylinder (d) Nor	ne of the above
13. A dealer buys a lot of 50 chairs for Rs 5,000 but 20		
damaged one at three-fourths the price of the normal of		
selling price of a chair should be:	no. To make a promest of	570 OH 1110 WHOLE, 1110
(a) Rs 135 (b) Rs 150	(c) Rs 160	(d) Rs 175
14. A sum of money at compound interest, compounde		` ,
3 years to Rs 2,812.16. The rate of interest is:		,
(a) 8% (b) 6%	(c) 4%	(d) 5%
15. If a sum of money double itself in 16 years at a cert		
in 8 years at die same rate.		
(a) 1(1/2) (b) 1(1/4)	(c) 1(1/3)	(d) 1(1/5)
16. A clerk borrowed a sum of money at compound inte		` , ` ,
two equal yearly instalments of Rs 4,410 each. If the ra		
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 read		
rate of 4 kmph, he reaches his office 15 minutes earlier		
•		
(a) 3.5 (b) 7	(c) 2	(d) 6
18. A sample of 50 litres of glycerine is found to be adu	Iterated to the extent of 2	
glycerine should be added to bring the percentage of in	npurity down to 5%?	·
(a) 60 litres (b) 40 litres	(c) 150 litres	(d) 190 litres
19. A cistern without lid containing 8,000 litres of water	measures externally 3m	3dm ×2m 6dm × lm 1 dm,
the sides being 5 cm thick. The thickness 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 garden 30 m long and 20 m bi	road. He decides to incre	ase the length by 6 m. By
how many metres should he increase the breath so tha		
(a) 4 m (b) 6 m	(c) 22 m	(d) 24 m
21. The area of a right triangle is S sq cm and one of th	e sides containing the rig	ht angle is I cm. The
altitude on the hypotenuse is:		

(a) 25/t cm		(b) $(S^2 - t^2)$ cm	
(c) $\sqrt{[t^2 + (4S^2)/t^2]}$ cm 22. The side of a square is 2 dm	. Semi-circles are constr	(d) 2St $\sqrt{[t^4 + (4S^2)/t]}$ cnucted on each side of the	
the whole figure in dm ² is: (a) $4 + 2\pi$	(b) 4 + 4π	(c) 4 π	(d) 8 π
23. In a chess board, eight rook	s are to be placed such t	hat no two rooks are in tl	ne same row or in the
same column. In how many way (a) 64	s the eight rooks can be (b) 5040	(c) 40320	rd? (d) 16777216
24. A and B are two single digit		isible by 99, then	
(a) A = 9 and B = 6 (c) A = 5 and B = 1		(b) A = 6 and B = 9 (d) A = 4 and B = 2	
25. There are two outlet taps, A		oth taps are opened, the	
drained in 45 minutes. If the tap the tap B is opened and the tap	A is closed, how long wil	I it take to drain the tank	?
(a) 2 hrs. 26. There are 100 students in a	(b) 3 hrs.	(c) 2 hrs. 30 min.	(d) 4 hrs.
whereas in the second test 49 p (a) 12			
27. Which of the following stater	nents are true?	,	(4) 4.
A) If a perfect square is dividedB) If a perfect square is divided			
C) If a perfect cube is divide			
D) If a perfect cube is divide (a) A and B only(b) A ar	•	always 1 or 8 d D only(d) C and D onl	,
28. Which of the following three			y
(a) 2 cm, 3 cm, 4 cm		(b) 3 cm, 4 cm, 5 cm	
(c) 4 cm, 8 cm, 5 cm 29. How many times 7 appear w	hen the integers betwee	(d) 7 cm, 11cm, 15 cm n 10 and 100 are written	?
(a) 17	(b) 18	(c) 19	(d) 20
30. If $f(x)$ denotes the greatest in $\sum f(n)$ where n varies from 1 to 1		to the cube root of 3x, th	ien the sum of the series
(a) 13	(b) 19	(c) 20	(d) 39
Directions for Overtions 24 to			
Directions for Questions 31 to In the following questions each		rupee value following so	ome uniform pattern.
Find the cost of the given items.			·
31. If SOFA is valued at Rs. 82,			
(a) Rs. 84 32. If MOBILE costs Rs. 110, wh	(b) Rs. 72 nat would a FLOPPY cos	(c) Rs. 82 ts?	(d) Rs. 92
(a) Rs. 168	(b) Rs. 178	(c) Rs. 152	(d) 208
 If CLOCK costs Rs.86, what (a) Rs. 92 	11 TDEE 10		(4) = 00
(a) NS. 92		,	
Directions for questions 34 to	(b) Rs. 96	(c) 106	(d) Rs. 84
	(b) Rs. 96 37 :	(c) 106	(d) Rs. 84
If in a certain language PARAMowould the following words coded	(b) Rs. 96 37: DUNT is coded as 92102	(c) 106	(d) Rs. 84
If in a certain language PARAMO would the following words coded 34. DIVINE	(b) Rs. 96 37: DUNT is coded as 92102 I in that language?	(c) 106 26812711 and DRIVE is	(d) Rs. 84 coded as 3105124 how
If in a certain language PARAM6 would the following words coded 34. DIVINE (a) 5312574 35. VNARMED	(b) Rs. 96 37: DUNT is coded as 92102 I in that language? (b) 3513574	(c) 106 26812711 and DRIVE is (c) 5743513	(d) Rs. 84 coded as 3105124 how (d) 1335574
If in a certain language PARAM6 would the following words code 34. DIVINE (a) 5312574	(b) Rs. 9637:DUNT is coded as 92102d in that language?(b) 3513574(b) 97210654	(c) 106 26812711 and DRIVE is (c) 5743513 (c) 89729642	(d) Rs. 84 coded as 3105124 how (d) 1335574 (d) 127210643
If in a certain language PARAM6 would the following words coded 34. DIVINE (a) 5312574 35. VNARMED (a) 127410645	(b) Rs. 96 37: DUNT is coded as 92102 I in that language? (b) 3513574	(c) 106 26812711 and DRIVE is (c) 5743513	(d) Rs. 84 coded as 3105124 how (d) 1335574

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 (c) IOU (a) OIC (b) CIO (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 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. Finally only apples are left out in the basket.

46. How many apples were there in the beginning in the basket? d) 20 b) 16 c) 18 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 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 a) CSUF b) LBDO c) PGJS d) UMOX 50. If SHIP is written as PEFM, then BOAT may written as d) ZMYR a) DQCW b) ERDX c) YLXQ 51. Find the odd man out a) TESRIS b) HATFER c) HOTREM d) LOVINI 52. Insert the missing number 243 (250) 368 317 (438 b) 323 c) 324 d) 342 a) 242 53. In the following list, one of the words is my pass word. If 1 were to tell you any letter of my pass word, then you would be able to tell me the number of vowels in my pass word. Which is my pass word? b) SNOW a) CASH c) TIME d) IDEA Directions for questions 42 to 45 In each of the following questions, a statement is given, followed by two conclusions. Give answer (a) if only conclusion I follows (b) if only conclusion II follows (c) if either I and II follows (d) id neither I and II follows (e) if both I and II follow 42. Statement : Morning walks are good for health. **Conclusion**: I. All healthy people go for morning walks. II. Evening walks are harmful 43. Statement : Company X has marketed the product. Go ahead, purchase it, if price and quality are your considerations. : I. The product must be good in quality. Conclusion II. The price of the product must be reasonable 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

: A neurotic is a non-stupid person who behaves stupidly

Conclusion: I. Neuroticism and stupidity go hand in hand.

II. Normal persons behave intelligently.

Directions for Questions 46 to 53:

45. Statement

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, 8	34, 120,is	•
a) 165 b) 175	c) 180	d) 192
49. Among the four groups of letters, three are alike in s	ome way while one is dif	ferent. Find the one
which is different	•	
a) CSUF b) LBDO	c) PGJS	d) UMOX
50. If SHIP is written as PEFM, then BOAT may written		,
	Q d) ZMYR	
51. Find the odd man out	,	
a) TESRIS b) HATFER	c) HOTREM	I) 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 the words is my pass wor		y letter of my pass word
then you would be able to tell me the number of vowels		
a) CASH b) SNOW	c) TIME	d) IDEA
,	,	,
For Questions 54 and 58:		
54. In the above figure, how many squares are there?		
a) 16 b) 20	c) 24	d) 28
55. In the above figure, how many triangles are there?	,	,
5 / 5		
a) 72 b) 84	c) 96	d) 100
56. Find the missing figure: 3, 7, 17, 39, 85,?	,	•
a) 179 b) 189	c) 147	d) 255
57. Find the missing pair of letters: IR LO ? RI UF	XĆ	•
a) OL b) ON	c) NO	d) RO
58. Which of the figures 1, 2, 3, 4 given in the answers v		xt figure in the following
sequence?	3	3
'		
59. A man pointing to a photograph says, "The lady in th	ne photograph is my nepl	new's maternal
grandmother." How is the lady in the photograph related		
a) cousin b) sister-in-law c) moth		ner-in-law
60. Pointing to a lady, a man said, "The son of her only l		
related to the man?		,
a) mother's sister b) grandmother c) moth	ner-in-law	
	ernal anut	
61. The first mechanical computer designed by Charles		
a) Abacus b) Analytical Engine	c) Calculator	d) Processor
62. If 4A9C in hexadecimal system is x in octal system t		±, 1 1000001
a) 43254 b) 45234	c) 11247	d) 74211
63. The parity bit is added for the purpose of	<i>♥,</i> 11 = 11	<i>□, ι</i> := ι :
a) coding b) indexing	c) error-detection	d) controlling
64 ROM is composed of	3, 31101 4310011011	a, 5511115111119

a) floppy disks b) magnetic core. 65. A micro computer has primary memory of 640		
memory?	it. What is the exact number of bytes	contained in this
a) 640,000 b) 655,360	c) 65,536 d) 64	x 2 ¹⁶
66. Which of the following is the most appropriate	unit for measuring the storage capac	
	c) bit d) tei	abyte
67. Find the odd man out a) coaxial cable b) optical fibre	c) twisted pair wire d) microwave	76
68. Which one of the following when added can re	educe the processing time of a complete	uter?
	c) a co-processor d) an	
69. Which of the following hardware components	is the most volatile?	
a) ROM b) RAM c	c) PROM d) EPROM	
70. What name is given to the collection of facts, i		e related in some
way?		
a) information tree b) information pro		atabase
71. Who is considered to be the father of Artificial		
	y c) Allen Newell d) Alan Turin	g
72. Which of the following memories is an optical		
a) Floppy Disk b) Core Memories	c) Bubble Memories d) CD-ROM	
73. The only things moving around inside a compa	uter are	
	c) I's and 0's d) wo	ords
74. Find the odd man out		
a) altavista b) google	c) java d) lyo	cos
75. What is me name of the network topology in w	hich there are bi-directional links be	tween each
possible node?		
a) Ring b) Star		esh
76. Which of the following might prevent a program		
a) logic errors c) syntax errors	b) lack of program documenta	ation
c) syntax errors	d) pseudocode	
77. What will be the value returned by calc when i	t is invoked with n = 10?	
a) 10 b)45	c)55 d)90	
78. The temperature of 32° C is equal to	\ 4000 F	
a) 0°F b) 89.6° F	c) 100° F d) 115.2° F	
79. A gallon is approximately equal to	-) A 55 Phase	05 114
a) 3.5 litres b) 4.0 litres	c) 4.55 litres d) 6.2	25 litres
80. DNS refers to		
a) Data Number Sequence	b) Domain Name Systemd) Digital Network Service	
c) Disk Numbering System 81. Each high level-language statement is known	ar Dialiai Nelwork Service	
o i Fach nigh jevel-janguage statement is known		
	as	
a) assembly language	as b) machine language	
a) assembly languagec) programming language	as b) machine language d) none of these	to a maximum 2n
a) assembly languagec) programming language82. A is a combinational circuit that converts	as b) machine language d) none of these	to a maximum 2n
 a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines 	as b) machine language d) none of these s binary information firm n input lines	
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder	as b) machine language d) none of these s binary information firm n input lines	to a maximum 2n one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device	b) machine language d) none of these binary information firm n input lines c) multiplexer d) no	one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no	one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no s c) direct access d) none of the e transferred from the disk to CPU is	one of these ese
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational delar	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no	one of these ese one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the local	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no	one of these ese one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lower	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read our	one of these ese one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the log memory is a) PC b) MAR	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) no s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out	one of these ese one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lower memory is a) PC b) MAR 86 contain a micro processor and internal	b) machine language d) none of these binary information firm n input lines c) multiplexer d) no c c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage	one of these ese one of these t or written in the
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lower memory is a) PC b) MAR 86 contain a micro processor and internal	b) machine language d) none of these binary information firm n input lines c) multiplexer d) no c c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage	one of these ese one of these
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lower memory is a) PC b) MAR 66 contain a micro processor and internal a) Dumb terminals b) Smart terminal	b) machine language d) none of these binary information firm n input lines c) multiplexer d) no c c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage	one of these ese one of these t or written in the
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lorememory is a) PC b) MAR 86 contain a micro processor and internal a) Dumb terminals b) Smart termina 87. APL is a) a programming language c) Operating system	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) none s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage l c) Intelligent terminal d) no b) software package d) none of these	one of these ese one of these t or written in the
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lower memory is a) PC b) MAR 86 contain a micro processor and internal a) Dumb terminals b) Smart termina 87. APL is a) a programming language c) Operating system 88. A compiler or an interpreter is itself a programming	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) none s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage I c) Intelligent terminal d) no b) software package d) none of these written in some language called	one of these ese one of these t or written in the
a) assembly language c) programming language 82. A is a combinational circuit that converts unique output lines a) decoder b) encoder 83. Magnetic tape is a storage device a) sequential access b) random acces 84. The speed represented with which data can be a) seek time b) rotational dela 85. The register which holds the address of the lorememory is a) PC b) MAR 86 contain a micro processor and internal a) Dumb terminals b) Smart termina 87. APL is a) a programming language c) Operating system	b) machine language d) none of these s binary information firm n input lines c) multiplexer d) none s c) direct access d) none of the e transferred from the disk to CPU is y c) transfer rate d) no cation when an instruction is read out c) MBR d) none of these storage l c) Intelligent terminal d) no b) software package d) none of these	one of these ese one of these t or written in the

89. A long and complex program a) modules c) top-down design	ım is split into a number of smaller programs known as b) structured programming d) bottom-up-design				
90. Managing the flow of data a a) Job management			the I/O units and	the prin	
91 provides graphical inte			,		,
a) MS DOŠ	b) UNIX	c) WIN	DOWS	d) none	e of these
92. The base number in a numb	per system is				
a) Radix			c) Bottom		d) none of these
93. Which is NOT considered at					•
a) low equipment cost	· ·		b) accuracy and	d realiab	ility
c) speed			d) increased storage capacity		
94. Which number system do we use in our day to day activities					
a) octal	•	-	c) binary		d) decimal
95. Which is the "mega flop"?	, 0		,		,
	ansmission		b) large storage device		
c) one million flooting point operations per second					
d) measurement of prim					
96. ASCIÍ data representation is		,			
a) handwriting b) morse code	c) sc	ientific notation	d) le	tters of the alphabet
97. Eight consecutive bits are care	alled a	,		,	·
a) BUS b) byte		c) logic	gate	d) binar	ry digit
98. ISA, EISA, and MICA are te	rms to describe	, .		,	
a) parallel processors	b) tape drives		c) types of buse	es	d) serial printer
99. UNIX is a					
a) software	b) hardware		c) A printer		d) CPU
100. LET is a(n) statem					•
a) assignment	b) remark		c) conditional		d) unconditional