MODEL EXAMINATION PAPER 1

No. of Questions: 100

Time: 2 Hrs

1. is	The number obtained by reverting the digits is 594 less than the original number. The number				
15	1) 762	2) 2	258	3) 528	4) 852
	Twenty men can may be finished in 1) 10 days	n 35 da	-	•	d 5 men leave the work so that 4) 15 days
	The value of a mage % of depreciation 1) 11%	on?	e depreciates from 2.5%	Rs. 32,768 to Rs. 21,9	952 in three years. What is the 4) 12.25%
4.	,	factor		n the value of p and q and 3) 5, 4	,
5.	The rational num 1) 117/300, 287/		ring between (1/3) 2) 97/300, 299		/400 4)95/300, 301/400
	Find the greates spectively	t numl	per that will divid	de 1625, 2281 and 42	18 leaving remainders 8, 4, 5
	1) 11	2) 1	2	3) 13	4) 14
7. The area of a grassy plot is 480 metres. If each side has been 5m longer, the area would have been increased by 245 sq. m. Find the length of the fence to surround it 1) 87 2) 88 3) 90 4) 92					
8.	The diagonals of 1) 1000 sq. m		nbus are 60 m and 600 sq. m	80 m. Its area would b 3) 2400 sq. m	4) 4000
9. A vessel can be filled by one pipe in 8 minutes, by a second pipe in 10 minutes. It can be emptied by a waste pipe in 12 minutes. In what time will the vessel be filled if all the three be opened at once?					
	1) 7 1/17 minute	s 2	2) 6 minutes	3) 10 minutes	4) 8(1/17) minutes
10. The average age of 32 students is 10 years. If the teachers age is also included, the average age increases by one year. What is the age of the teacher?					
	1) 50	2) 3		3) 43	4) 32
11. The string of a kite is 150 metres long and it makes an angle of 60° with the horizontal, the height of the kite from the ground would be 1) 130.1m 2) 129.9m 3) 112 m 4) 75 m					
10	,			3) 112 m	4) 75 m
12	1) 3	2) 6	n the value of $2x^3$	3) 9	4) 0
13	If $x = (b - c)/a$, 1) 4	y = (c - 2) a		c, then the value of $x + 3$ a + b + c	y + z + xyz is 4) 0
14	14. The value of t he expression $\sqrt{(4 + \sqrt{15})} + \sqrt{(4 - \sqrt{15})} - \sqrt{(12 - 4\sqrt{5})}$ is 1) a natural number 2) a negative number				
				1	

	3) a non- integer rational number		4) a irrational number		
15.	5. $A \cap (B \cap C)$ is same as 1) $(AUB) - (A \cap C)$ 3) $(A \cap B) - (A \cap C)$		2) (A∩B) – C 4) A – (B∩C)		
16.	If $\log_{10} x + \log_{10} 3$ 1) 25	5 = 2, then x equals 2) 20	3) 15	4) 100	
17.	The sum of the sq 1) 48	uare of two consecutive 2) 50	re even numbers is 125 3) 52	2. The sum of the numbers is 4) 54	
18.	If the angles of a 1 1) 32	pentagon are in the rati	to 1:3:6:7:10, then the s 3) 27	smallest angle is 4) 20	
19.	Turn odd man out	t 41, 43, 47, 53, 61, 71, 2) 71	73, 81	4) 81	
20.	Complete the seri	es 2, 5, 9, 19, 37, 2) 74	3) 75	4) 73	
21.	The calendar for 1 1) 1996	1990 is the same as for 2) 1997	3) 1994	4) 2000	
22	What is the small (1) 9	est number by which 3 2) 50	600 is divided to make 3) 450	it a perfect cube? 4) 300	
23.	What is 25% of 2. 1) 6.25	5%? 2) 0.625	3)0.0625	4) 0.00625	
	24. What price should a shopkeeper mark on an article, costing him Rs.153, to gain 20% after allowing a discount of 15%				
	1) Rs. 224	2) Rs. 216	3) Rs. 184	4) Rs. 162	
25. If 18 persons can build a wall 140 m long in 42 days, the number of days that 30 persons will take to complete a similar wall 100m long is					
	1) 18 days	2) 21 days	3) 24 days	4) 28 days	
Directions: Questions 26, 27 and 28 are based on the passage given. Choose the best answer for each. Passage: If a person reads a lot he will increase his vocabulary. In doing so he will increase his speaking and writing power. 26. The argument is based on the assumption (M) String vocabulary is important for writing and speaking (N) People should read books containing unfamiliar words (O) The books to be read should be entertaining 1) (M) only 2) (N) only 3) (M) and (n) only 4) (N) and (O) only					
 27. Which one of the following would weaken the argument? 1) Educated people can express their thoughts better 2) Only a well read person can make proper use of the English language 3) The style of a person is coloured by the style of the authors he reads 4) Those who passed vocabulary tests could not write well 					

28. Which will strengthen the argument?

` /	(M) Slow readers cannot do well in competitive exams(N) Every one must study English				
(O) In order to be 1) (M) only	ecome a good lecturer in 2) (N) only	n English one must ind 3) (O) only	crease one's vocabulary 4) (M), (N) and (O)		
game. The hobbies t going to movies. The do not like TV serial Gaurav do not read s Like to play hockey.	they are interested in a children play cricket, is or movies. Pooja and tories or fly kites. Saut The badminton player is hobby and which gamekey	are story – reading, m badminton, hockey and d Saurabh do not play rabh does not play bad does not watch TV ser	dminton		
30. What are Saurabh 1) Music : kites 3) Stories : hocke		2) Music : ba 4) Stones : ki			
31. Who likes movies 1) Deepak: hocke 3) Pooja: cricket	2	s that person play? 2) Pooja: bac 4) Deepak: c			
32. Who likes music? 1) Gaurav	2) Saurabh	3) Pooja	4) Deepak		
Five shirts are placed below the Orange shi	-	Red shirt is above the Orange shirt and W	1 34ae Blue shirt and Green shirt is White is below the Green shirt.4) Data is insufficient		
34. Which colour shin 1) Red	rt is at the bottom? 2) White	3) Orange	4) Cannot be said		
35. A person is driving driving towards south 1) left, right, right, 3) left, left, left	n?	t sequence of direction 2) right, right 4) right, right			
-	South-Emit direction 45° to the right. In whi 2) North-East		ed 90° to the right and walked king now 7 4) North		
A is the father of C. I	C. F is the spouse of A. D is the son of B. H is the father of G.	-	39;		
1) A	2) B	3) C	4) D		

38. Who is the grand 1) B	- daughter of A? 2) H	3) E	4) D		
39. Who is the comm 1) B	on grand - child of bot 2) C	th F and H? 3) D	4) H		
Directions : On the basis of the fo	llowing diagram answ	er, questions 40 to 43			
The rectangle represents the bachelors The square represents the Delhi Metropolis The circle represents the English language The triangle represents the tourists 40. The portion representing bachelor tourists, who know the English language is 1) 2 2) 1 3) 7 4) 4					
41. The portion repre 1) 6	senting bachelor touris 2) 9	ets, who know the Engl 3) 7	lish language is 4) 8		
 Some of the to No person m I English is spo 	 42. Which of the following is true? 1) Some of the tourists are staying in Delhi Metropolis 2) No person m Delhi Metropolis knows English 3) English is spoken by <i>a</i> few tourists and some persons in Delhi 4) None of the above statements are true 				
43. Tourists, who <i>ar</i> section marked	43. Tourists, who <i>are</i> bachelors and do not know the English language is represented by the section marked				
1) 1	2) 2	3) 3	4) 4		
44. A hospital always 1) attendants	s has 2) nurses	3) emergency	4) doctors		
43. Blood is formed in 1) bone-marrow	_	3) heart	4) Lungs		
46. If ACTION is coon 1) SVZOGS	ded <i>as</i> ZXGRLM, then 2) TVZOGT	HEALTH will be cod 3) RUZPGR	ed in the s <i>ame way as</i> 4) QVGOZQ		
47. If OUT is coded a 1) 1015	ns 152120, IN will be c 2) 1813	coded as 3) 819	4) 914		
Direction: Based on the relationship of the two given words, find the missing term from the given option. 48. NATION: HUNGRY:? 1) HNUGRY 2) UNHGYR 3) YRNGUH 4) UHGNYR					

Direction:

Which of the following groups of letters will complete the given series

49. ab-ccca-bccc-bbcc-

1) abbc

2) bbac

3) bbca

4) cabc

50. If \div Means +, \times Means -, + Means \times , - Means \div then $8 \div 15 - 3 \times 4 + 2 = ?$

1) 18

2) 5

3) 23/24

4) 23/6

Direction:

For questions 51 to 54, in each questions are given two statements followed by two conclusions numbered I and II. You have to take the two given statements to be True even if they *seem* to be at variance from the commonly known facts and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts

Given answer

1. if only conclusion I follows

2. if only conclusion II follows

3. if either I or II follows

4. if neither I nor II follows

51. **Statements**: All politicians are intelligent

Some women ore politicians

Conclusion: I Some women are intelligent

II All those intelligent women

52. **Statements**: Some teachers are adults

Some adults are poets

Conclusion: I Some teachers are poets

II Some poets are teachers

53. **Statements:** Lawyers married only fair girls

Shoba is very fair

Conclusion : I Shoba was married to a lawyer

II Shoba was not married to a lawyer

54. **Statements**: Some dogs are rats

All rats ere horses

Conclusion: I All dogs are horses

II Some horses are dogs

Directions (Q. 55 - 56)

Out of the five statements, there are logically compact. From the answer choices pick up the one which give three logically compact statements.

55. (1) Some caps are tanks

(2) Some bulbs are not caps

- (3) All caps ore bulbs
- (4) All tanks are caps
- (5) Some bulbs are tanks

(1) (2) (5) (4) (2) (1) (2)

1) (3), (5), (4) 2) (1), (3), (4)

3) (1), (2), (3)

4) (1), (3), (5)

56. (1) All birds are rings

- (2) No wing is bird
- (3) Some rings are wings
- (4) No ring is wing
- (5) Some birds are not rings

1) (5), (2), (1) 2) (2), (3), (4) 3) (1), (4), (2) 4) (2), (4), (5)

Direction for Q. (57 - 60)

In each of the questions one or more statements have been given followed by four interferences. Find out the interference that definitely follows from the given statements

- 57. Soldiers serve their country
 - 1) Those who serve the country are soldiers
 - 2) Women do not serve their country because they are not soldier
 - 3) Men generally serve the country
 - 4) Some men who are soldiers serve their country

58. Many smokers get cancer

- 1) Most cancer patients are smokers
- 2) Smoking may lead to cancer
- 3) Most smokers get cancer
- 4) Smoking always leads to cancer

59. All business men are dishonest

All business men are fraudulent

- 1) Either all fraudulent persons are dishonest or all dishonest are fraudulent
- 2) Some dishonest persons are fraudulent
- 3) Generally fraudulent persons are dishonest
- 4) Fraud and dishonesty go together

60. All men are vertebrates

Some mammals are vertebrates

- 1) All men are mammals
- 2) All mammals are men
- 3) Some vertebrates are mammals
- 4) All vertebrates are men

Directions : Each of the questions 61 to 65 is followed by two Arguments numbered I and II. You are to decide which one *is* strong and which is week. Mark

- 1) if argument I is strong
- 2) if argument II is strong
- 3) if neither I nor II is strong
- 61. **Question**: Should all the elected legislative members be put through compulsory training for running the government?

Arguments: I Yes, it will certainly be helpful.

II No, people elect only matured individuals who are able to hold the office

62. **Question:** Should primary education be made free in India?

Arguments: I Yes, in a welfare state it is the duty of the government to impart primary education.

II No, India does not have adequate number of primary schools to accommodate all.

63. **Question :** Should the degree be de-linked from job?

Arguments : I Yes, because such a step would discourage students from joining universities II No, because well educated are the backbone of democracy.

64. **Question:** Is a coalition government suitable for democracy?

Arguments: I Yes, because; such government cannot become dictorial

II No, because such government cannot be stable

65. **Question:** Should rural banks be abolished?

Arguments : I Yes, because they are not run properly

II No, because they will develop villages

Directions:

Each of the question 66 to 70 consists of a question statement and two data statements numbered I and II Read both and Mark

- 1. If data 1 alone is sufficient to answer the question
- 2. If data II alone is sufficient to answer the question
- 3. If both data I and II taken together is sufficient
- 4. If both data I and II taken together is not sufficient
- **66. Statement :** Which day will be the last day of the month of March?

Data : I The first day of March and the year are given

II The first day of the year given

67. Statement : A is taller than C and D is shorter than E who among them is the shortest

Data : I D is taller than A II C is shorter than E

68. Statement: 'A' and 'B's salaries are in proportion 4: 3 respectively. What is A's salary?

Data : I B's salary is 75% of A's salary

II B's salary is 4,500 p.m.

69. Statement: Many pick pockets have been arrested?

Data: I Picking pocket is a cognisable offence

II Police arrest those who commit this offence

70. Statement: Nuclear war will leave no victor and no vanquished

Arguments: I There are victors and vanquished after war

II Nuclear war is destructive

Directions:

For question 71 to 75 a statement is followed by two conclusions. Point out

- 1. If only first conclusion is true
- 2. If only second conclusion is true
- 3. If both the conclusions are true
- 4. If neither of the conclusion is true

71. **Statement:** The increase in adult literacy will lead to country's development and progress.

Conclusions: I The educated people offer less resistance to new innovations

II The literacy rate is higher in developed countries.

72. **Statement**: Crime is a function of criminals biological make up and his family relations

Conclusions: I The incidence of crime is higher in identical twins then in fraternal twins

II Families in which parents lack warmth and affection fail to build a moral conscience in children.

73. **Statement :** Education is in the concurrent list. The State Government cannot bring reforms in education without the consent of the Central Government

Conclusions: I For bringing about quick reforms in education, it should be in the state list II States are not willing to bring about quick reforms in education.

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74.		uglas is my cousin. A cother's son	cousin may be a sister's	son or an uncle's son or
		Douglas is my sister's Douglas is my uncle		
75.	Conclusions: I	withdrew to their old po In the atmosphere of	ositions Tension negotiations ca	nere of tension. The parties annot succeed ould have taken new positions.
76.	Which of the fol 1) Super-micro 3) Supercomput		verful type of compute 2) Superconductor 4) Megaframe	r?
77.	Coded entries w 1) Entry codes 3) Security com	_	2) Passwords 4) Code words	stem are called
78.	A term associated 1) EFTS	with the comparison of 2) MPG	of processing speeds of 3) MIPS	different computer system is 4) CPS
79.	Human beings an 1) Monitor	re referred to as Homos 2) Hardware	sapiens. Which device 3 Robot	is called silicosapiens ? 4) Computer
80.	A software pacl 1) ATMS	(age generally used wire) DWPS	th in a distributed word 3) RPG	l processing system is 4) DBMS
81.		Business Machines	rld to build computer for 2) Remington Rand (4) Sperry Univac	
82.	The first movie 1) Star wars	released in 1982 with 2) Tron	terrific computer anima 3) Forbidden planet	- -
	Which of the following ROM	llowing is an example 2) RAM	of nonvolatile memory 3) LSI	? 4) VLSI
	In virtual storag 1) sections	ge, program segments s 2) partitions	tored on disk during pr 3) sectors	rocessing are called 4) pages
		llowing is not an alterr 2) Primary storage	nate name for primary i 3) Internal storage	memory ? 4) Mass storage
	What is the nun (1) 64	nber of bit patterns pro 2) 256	vided by a 7-bit code? 3) 128	4) 512
87.	The word length 1) bits	h of a computer is mean 2) bytes	sured in 3) millimetres	4) metres
	l) Indian Standar		For2) Integrated Service4) Integrated Service	
	A network which ing micro computed 1) WAN		data, software and h	ardware among several users 4) VAN

90. The operating syllindows	ystem for the laptop co 2) DOS	ompi called Machite is 3) MS-DOS	4) OZ	
91. The errors that 1) Syntax errors	can be pointed out by 2) Semantic errors	compiler are 3) Logical errors	4) Intemal errors	
92. Which of the fo 1) CGA	llowing colour graphic 2) HGA	es dia adapter has the h 3) EGA	ighest resohition ? 4) VGA	
93. The programming 1) RPG	ng language used in Ar 2) PROLOG	rtil Intelligence and exp 3) FORTRAN	pert system developmc 4) C + +	
94. Whose trademand 1) BELL Laborato 3) Microsoft	rk is the operating sy ories	2: UNIX? 2) Ashton Tate 4) Motorola		
95. Which tanguage relational database sy 1) ORACLE	-	defacto standard for in 3) dBASE	terfacing applic programs ivith 4) 4GL	
_	1 0	in any one of the high 3) Source program		
97. The MIS structure with one main computer system is called a 1) distributed MIS structure 2) hierarchical MIS structure 3) centralised MIS structure 4) decentralised MIS structure				
98. A language for a 1) SPSS	simulating models of b 2) DL/1	ousiness activity is 3) COBOL	4) GPSS	
99. Graphic interfact 1) Ethernet	ces were first used in a 2) Inter LISP	xerox product called 3) Smalltalk	4) Zeta LISP	
100. What console co	ommand displays the s 2) CONFIG	erver name and LAN c 3) N CONFIG	configuration ? 4) N DIR/LAN	
1. 2 2. 4 3. 2 4. 3 5. 1 6. 1 7. 2 8. 3 9. 1 10. 3 11. 2 12. 1 13. 4 14. 4 15. 3 16. 2				

- 17. 2
- 18. 4
- 19. 4
- 20.
- 21.
- 22.
- 3 3 3 2 1 23.
- 24.
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- 3 4 26.
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- 3 28.
- 29.
- 30. 4 31.
- 32.
- 33.
- 2 1 3 2 4 4 2 3 3 2 * 3 2 4 34.
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- 1 45.
- 1 46.
- 4 47.
- 48. 4 49.
- 2 2 1 50.
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- 4 52.
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- 3 4 3 1 55.
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- 58. 2 2 3 1
- 59. 60.
- 61.
- 62.
- 3 3 3 63.
- 64.

2 65. 66. 67. 4 2 4 3 2 4 68. 69. 70. 71. 72. 73. 74. 3 3 3 3 2 4 75. 76. 77. 78. 79. 80. 81. 82. 1 83. 1 3 4 3 2 2 3 4 3 4 2 1 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 2 3 4 95. 96. 97. 98. 99. 100. 1

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