MCA Model Paper 4

1. The digit in the unit place of the number represented by $(7^{95} - 3^{58})$ is :					
	(2) 0	(3) 6	(4) 4		
2. The units digit in the pr	$\begin{array}{c} \text{oduct} (2467) & \text{X} (341) \\ (2) & 2 \end{array}$		(4) 0		
(1) 1 2 Which of the following :	(2) 3	(3) 7 Idad to 11158 to make	(4) 9		
3. Which of the following a divisible by 77?	numbers should be ad	ided to 11158 to make	e it exactly		
(1) 9	(2) 8	(3) 7	(4) 5		
4. The traffic lights at three	ee different road cros	sings change after eve	ery 48 sec. 72 sec.		
and 108 sec. respective	ly. If they all change s	simultaneously at 8 : 2	20 : 00 hours, then		
they will again change s	simultaneously at :				
(1) 8 : 27 : 12 hours		(2) 8:27:24 hours			
(3) 8 : 27 : 36 hours		(4) $8:27:48$ hours			
5. The sum of two number	rs is 528 and their H.(C.F. is 33. The numbe	er of pairs of such		
numbers satisfying the	above condition is :				
(1) 6	(2) 12	(3) 8	(4) 4		
6. The present age of fathe					
was ten times the age of		-			
(1) 45 years	(2) 40 years	(3) 48 years	(4) 49 years		
7. Four years ago the aver	0 0	•	ining then now the		
average becomes 22 yea					
(1) 20 years	(2) 25 years	(3) 28 years	(4) 30 years		
8. A sum of money is to be divided among P, Q and R in the ratio of 2 : 3 : 5. If the total					
share of P and R togethe					
(1) Rs 400	(2) Rs 500	(3) Rs 600	(4) Rs 7.50		
9. A box contains Rs. 56 in the form of coins of one rupee, 50-paise and 25-paise. The					
number of 50-paise coins is double the number of 25 paise coins and four times the number of one rupee coins. How many 50 paise coins are there in the box?					
-	• •				
(1) 64	(2) 32 a af T V, aata ha 20 9/	(3) 16	(4) Data inadequate		
10. On increasing the price of T.V. sets by 30 %, their sales decreases by 20%. What is the effect on the revenue receipts of the shop?					
		(3) 8% increase	(4) 8% decrease		
11. An article when sold fo	or Rs 840 earns a prof	fit which is double the	amount of loss when		
11. An article when sold for Rs 840 earns a profit which is double the amount of loss when the same article is sold for Rs. 600. What is the C.P. of the article?					
(1) Rs. 500	(2) Rs. 680	(3) Rs. 720	(4) Data inadequate		
12. The sum of five terms of an in arithmetic progression is 70. The product of the extreme					
terms is 132. Find the s	series	•			
(1) 8,12	(2) 10,12,14	(3) 6,10,14	(4) 8,12,16		
13. Avinash borrowed Rs. 5000 from Sanjay at simple interest. After 3 years, Sanjay get					
Rs. 300 more than what	at he had given to Av	inash. What was the r	ate of interest per		
annum?					
(1) 2%	(2) 5%	(3) 8%	(4) 10%		

14. The difference in co 10% per annum at the (1) Rs. 40,000	-	r is Rs. 620. What is th	
15. Bombay Express left and Rajdhani Express travelling at a speed of (1) 120 km	s left Delhi for Bomba	ay on the same day at	60 : 30 hours,
16. A person walks at 5 k	mph for 6 hours and	at 4 kmph for 12 hou	rs. The average speed
of the man is : (1) 4 km/h	(2)4 1/3km/h	(3)4 1/2km/h	(4) 4 2/3 km/h
17. A car can finish a cer			
the same distance in 8	•	-	-
(1) 6 km/h	(2) 7.5 km/h	(3) 12 km/h	(4) 15 km/h
18. I have to be at a certa	-		
	h and 10 minutes	too soon if I walk	at 4 km/h. How far I
have to walk? (1) 6 km	(2) 10 km	(3) 12 km	(4) 16 km
19. A can do a certain job			
it takes B to do the sa	e e		
(1) 6	(2) 6 1/4	(3) 7 1/2	(4) 8
20. 12 children take 16 da		-	•
days. 16 adults started them. How many days (1) 6	-	-	-
them. How many days	s will it take them to ((2) 8 ank in 10 hours and 1 n 20 hours. If all the	 complete the remainin (3) A 2 hours respectively we three pipes operate similar 	ng work? (4) 3 while a third pipe
 them. How many days (1) 6 21. Two pipes can fill a tage of the full tank is much time the full tank is (1) 7 hours 	s will it take them to (2) 8 ank in 10 hours and 1 n 20 hours. If all the vill be filled? (2) 8 hours	 complete the remaining (3) A 2 hours respectively we three pipes operate size (3) 7 hours 30 min 	ng work? (4) 3 while a third pipe multaneously, in how (4) 8 hours 30 min
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- 27. A cylindrical piece of metal of radius 2 cm and height 6 cm is shaped into a cone of same radius. The height of the cone is : (1) 8 cm (2) 12 cm (3) 14 cm (4) 18 cm
- 28. A cylindrical vessel 60 cm in diameter is partially filled with water. A sphere 30 cm in diameter is dropped into it. The increase in the level of water in the vessel is

 (1) 2 cm
 (2) 3 cm
 (3) 4cm
 (4) 5cm
- 29. In a group of 6 boys and 4 girls, four children are to be selected, in how many different ways can they be selected such that at least one boy should be there? (1) 159
 (2) 194
 (3) 205
 (4) 209
 (e) None of these

30.	In how	many ways	s can	the letters o	of the word	'LEADER' be arranged?
	(1) 72	(2)	144	(3) 360	(4) 720	(e) None of these

Directions for Questions 31 - 35:

In a group of seven girls, Aruna is taller than Divya but shorter than Hema who is not the tallest girl. Divya is not as short as Priya who is not the shortest. Shilpa is shorter than 4 girls including Geetha and taller than the other girls. No data is available about the remaining girl Bama.

31. The tallest girl is					
1) Divya	2) Aruna	3) Bama	4) Geetha		
32. The shortest girl is					
1) Bama	2) Divya	3) Shilpa	4) Hema		
33. The girl who stands middle in the height is					
1) Divya	2) Aruna	3) Priya	4) Hema		
34. The number of girls taller than Aruna is					
1) One	2) Two	3) Three	4) Four		
35. Find the missing number in the sequence 2, 7, 10, 63,?, 215, 50					
1) 26	2) 28	3) 80	4) 126		

Directions for Questions 36 - 39 :

Three adjacent faces of a cube having a common vertex are painted with green colour and the other three faces are painted with red colour. The cube is cut into 216 equal small cubes.

36. How many small cubes have green paint en one face and red paint on another face and no paint on the remaining four faces?				
1) 12	2) 24	3) 48	4) 96	
-)	/	/	4) 90	
57. How many sma	ll cubes have no paint	on any of the faces?		
1) 48	2) 64	3) 96	4) 125	
38. How many small cubes have paint only on one face?				
1) 96.	2)72	3) 64	4) 48	
39. How many small cubes have red colour on - two faces and green colour one one face				
and no paint on the other three faces?				
1)2	2) 3	3) 4	4) 6	

Directions (Questions 40 to 47): The following questions are based on the diagram given below :

(1) Rectangle represents males. (2) Triangle represents educated. (3) Circle represents urban. (4) Square represents civil servants. 40. Who among the following is an educated male who is not an urban residents? (1)4 (2)5(3)9(4) 1141. Who among the following is neither a civil servant nor educated but is urban and not a male? (4) 10(1) 2(2)3(3) 642. Who among the following is a female, urban resident and also a civil servant? (1) 6(6)7(3) 10 (4) 13 43. Who .among the following is an educated male who hails from urban area? (3) ll (1)4(2) 2(4) 544. Who among the following is uneducated and also an urban male? (1)2(2)3(3)(4)1245. Who among the following is only a civil servant but not a male nor urban oriented and uneducated ? (1)7(2) 8(3)9(4) 14 46. Who among the following is a male, urban oriented and also a civil servant but not educated ? (4) 10(1) 13(6)12 (3) 6 47. Who among the following is a male civil servant, who is neither educated nor belongs to urban area? (3) 4(1)7(6) 13 (4) 1

Directions: Each question below is followed by two labelled facts [labelled as (1) and (2)]. You are to determine whether the data given in the statement are sufficient for answering the questions. Use the data given, plus your knowledge of Mathematics and every day facts, to choose amongst possible answer from (1) to (5),

- 1) If you can get the answer from (1) alone but not from (2) alone.
- 2) If you can get the answer from (2) alone but not from (1) alone.
- 3) If you can get the answer from both (1) and (2) but not from (1) alone or (2) alone.
- 4) If you cannot get the answer from statement (1) and (2) together, but need even more data.

48. What is Reena's rank in the class?

- I. There are 26 students in the class.
- II. There are 9 students who have scored less than Reena.

49. Who is the father of M?

- I. A and B are brothers.
- II. B's wife is sister of M's wife.

50. What day is the fourteenth of a given month ?

- I. The last day of the month is a Wednesday.
- II. The third Saturday of the month was seventeenth.

51. Among four friends A, B, C and D, who is the heaviest ?

- I. B is heavier than A, but lighter than D.
- II. C is lighter than B.

52. It is 8.00 p.m., when can Hemant get next bus for Ramnagar from Dhanpur ?

- I. Buses for Ramnagar leave after every 30 minutes, till 10 p.m.
- II. Fifteen minutes ago, one bus has left for Ramnagar.

53. In a certain code '13' means 'stop smoking'' and '59' means 'injurious habit'. What is the meaning of '9' and '5' respectively in that code?

- I. '157' means 'stop bad habit'.
- II. '839' means 'smoking is injurious'.

54. When is Manohar's birthday this year ?

- I. It is between January 13 and 15, January 13 being Wednesday.
- II. It is not on Friday.

55. On which day the flat was purchased by Rohan in 1996?

- I. Certainly before 18th December, 1996 but definitely not before 15th December, 1996.
- II. Certainly after 16th December, 1996 but not later than 19th December, 1996.

56. Is Arun taller than Sachin ?

- I. Dinesh is of the same height as Arun and Sachin.
- II. Sachin is not shorter than Dinesh.

57. Buses are always punctual in city X. How long, at the most, will Mr. Roy have to wait for the bus ?

- I. Mr. Roy has come to the bus stand at 9 A.M.
- II. There is a bus at 10 A.M. and possibly another bus even earlier.

58. The Chairman of a big company visits one department on Monday of every week except for the Monday of third week of every month. When did he visit the Purchase department?

- I. He visited Accounts department in the second week of September after having visited Purchase department on the earlier occasion.
- II. He had visited Purchase department immediately after visiting Stores department but before visiting Accounts department.

59. How is D related to A ?

- I. B is the brother of A.
- II. B is D's son.

60. Is D brother of F?

- I. B has two sons of which F is one.
- II. D's mother is married to B.

Direction : In a school, there were five teachers. A and B were teaching Hindi and English. C and B were teaching English and Geography. D and A were teaching Mathematics and Hindi. E and B were teaching History and French.

61. Who among the teachers was teaching maximum number of subjects?						
(1) A	(2) B	(3) C	(4) D	(e) E		
62. Which of the following pairs was teaching both Geography and Hindi?						
(1) A and B	(2) B and C	(3) C and A	(4) D and B	(e) None of these		
63. More than t	wo teachers were	teaching whicl	h subject?			
(1) History	(2) Hindi	(3) French	(4) Geograph	hy (e) Mathematics		
64. D, B and A	64. D, B and A were teaching which of the following subjects?					
(1) English on	ıly	(2) Hindi and	l English	(3) Hindi only		
(4) English and Geography (e) Mathematics and Hindi						
65. Who among the teachers was teaching less than two subjects?						
(1) A	(2) B	(3) D	(4) Data inac	lequate		
(e) There is no	o such teacher					

Directions (Questions 66 to 70) : In each of the questions you are given two statements (1) and (2) followed by two conclusions I and II. You have to take the two statements to be true even if they seem to be at Variance from the commonly known facts. You are to decide which of the given conclusions definitely follows from the given statements. Indicate your answer as :

- (1) If only conclusion I follows.
- (2) If only conclusion II is followed.
- (3) If either conclusion I or II follows.
- (4) If neither I nor II follows.

66. Statements :	(1) Some books are cars,
	(2) Some car are boxes.
Conclusions :	I. Some books are boxes.
	II. Some boxes are books.
67. 'Statements :	(1) Some kings are queens.
	(2) All queens are beautiful.
Conclusions :	I. All kings are beautiful.
	II. All queens are kings.
68. Statements :	(1) No papers are pens.
	(2) No pencils are pens.
Conclusions	I. Some pens are pencils.
	II. Some pens are papers.
69. 'Statements :	(1) Some nurses are nuns
	(2) Madhu is nun
Conclusions	I. Some nuns are nurses
	II Some nurses are not nuns
70. 'Statements :	(1) All poles are guns
	(2) Some boats are not poles.
Conclusions	I. All guns are boats
	II. Some boats are not guns

0	ion computers are ma	0		
(1) Vacuum tubes(3) Integrated circuit chips		(2) Transistors(4) Micro Processors		
72. Which of the fo				
(1) RAM	(2) PROM	(3) ROM		ARD DISK
	node these are		(4) 11	AKD DISK
(1) 4	(2) 3	(3) 2	(4) 5	
74. First fully elect		(3) 2	(+) 5	
•	(2) ENIAC	(3) MANIAC	(A) E	DVAC
75. Who developed		(5) 1111111	(+) L	DVIIC
(1) Michael shra		(2) Bjarne stoustru	in	
(3) Bushnell	yei	(4) None of these	۰Þ	
76. The clock speed	of Intel 8085 is	(4) None of these		
(1) 8 MHz	(2) 3 MHz	(3) 12 MHz	(4) 2() MHz
· · /	are in the usual key	· · /	(1) 2(
(1) 98	(2) 107	(3) 108	(4) 10)1
. ,	was the first compute			
(1) use transisto		(2) use a st	ored prog	ram
. ,	siness data processing			
	computer has a 4k RA			umber of locations
	available both for int			
(1) 1024	(2) 4096	(3) 5048	0	ne of these
80. A buffer is				
(1) a channel fo	or high-speed I/O devic	es		
(2) comparable	• •			
(3) low				
(4) none of the				
01 EL. 4	above			
81. Electronic Num	above erical Integrator and	calculator, means		
(1) ENAC		calculator, means (3) ENIAC	CR	(4) Calculator
(1) ENAC	erical Integrator and	(3) ENIAC	CR	(4) Calculator
(1) ENAC	erical Integrator and (2) ENIAC	(3) ENIAC	CR	(4) Calculator (4) 2, 8
(1) ENAC 82. The Base and w (1) 10, 2	erical Integrator and (2) ENIAC reights for Binary syst	(3) ENIAC em are (3) 8, 2		
 (1) ENAC 82. The Base and w (1) 10, 2 83. What is the octa (1)57 	erical Integrator and (2) ENIAC reights for Binary syst (2) 2, 2 al equivalent of the bin (2) 52	(3) ENIAC em are (3) 8, 2 nary number 1010 (3) 67)1?	
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 (1) ENAC 82. The Base and w (1) 10, 2 83. What is the octa (1)57 84. Find the hexade (1) 10 C 85. A micro process 	erical Integrator and (2) ENIAC reights for Binary syst (2) 2, 2 al equivalent of the bin (2) 52 ecimal equivalent of th (2) 132 sor	(3) ENIAC em are (3) 8, 2 nary number 1010 (3) 67 ne octal number 45)1?	(4) 2, 8 (4) 51
 (1) ENAC 82. The Base and w (1) 10, 2 83. What is the octa (1)57 84. Find the hexade (1) 10 C 85. A micro process (1) is a program 	erical Integrator and (2) ENIAC reights for Binary syst (2) 2, 2 al equivalent of the bin (2) 52 ecimal equivalent of th (2) 132 sor mable logic device	(3) ENIAC em are (3) 8, 2 nary number 10100 (3) 67 ne octal number 45 (3)11C)1?	(4) 2, 8 (4) 51
 (1) ENAC 82. The Base and w (1) 10, 2 83. What is the octa (1)57 84. Find the hexade (1) 10 C 85. A micro process (1) is a program (2) has computed 	erical Integrator and (2) ENIAC reights for Binary syst (2) 2, 2 al equivalent of the bin (2) 52 ecimal equivalent of th (2) 132 sor mable logic device ing and decision makin	(3) ENIAC em are (3) 8, 2 nary number 1010((3) 67 ne octal number 45 (3)11C g capability)1?	(4) 2, 8 (4) 51
 (1) ENAC 82. The Base and w (1) 10, 2 83. What is the octa (1)57 84. Find the hexade (1) 10 C 85. A micro process (1) is a program (2) has compute (3) is a data process 	erical Integrator and (2) ENIAC reights for Binary syst (2) 2, 2 al equivalent of the bin (2) 52 ecimal equivalent of th (2) 132 sor mable logic device ing and decision makin beessing unit of a comp	(3) ENIAC em are (3) 8, 2 nary number 1010((3) 67 ne octal number 45 (3)11C g capability)1?	(4) 2, 8 (4) 51
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88. A collection of card is	called a			
(1) graphic row	(2) deck	(3) CRT	(4) None of these	
89. FORTRAN, COBOL		e called		
(1) high level language		(2) low level langua	0	
(3) assembly languages	5	(4) machine langua	ges	
90. In generation of c	omputers, microprog	ramming concept was	s introduced	
(1) First	(2) Second	(3) Third	(4) Fourth	
91. The register which o	uts as a buffer betw	een the CPU and the	memory is	
(1) PC	(2) MAR	(3) MBR	(4) 1R	
92. The portion of the ope		each program one aft	ter another depending	
on the availability of (
(1) Time-sharing		(3) Scheduling	(4) None of these	
93. A formalised systemat				
(1) program	(2) algorithm	C} flow chart	(4) none of these	
94. What is a 'mega flop'	?			
(1) high capacity d	ata transmission			
(2) large storage de				
(3) one million floo	oting point operations p	ber second		
	primary storage capac	ity		
95. A monitor is				
(1) software		(2) part of the CPU		
(3) output hardware		(4) Input/output has	rdware	
96. "DRAM" and "SRAM	/I'' arc			
(1) types of memory	y	(2) access methods		
(3) types of disk dri	ves	(4) device speed measurements		
97. Which is an example of	of a Query language?			
(1) BASIC	(2) RPG	(3) SQL	(4) OS/2	
98. Which of the following	g is a UNIVERSAL ga	ate?		
(1) AND	(2) OR	(3) NOT	(4) NAND	
99. A diskette is divided in	nto tracks			
(1) 20	(2) 40	(3) 45	(4) 50	
100. A word processor can	n be used			
(1) to print a text or	ly if it is edited	(2) to shout at a mis	chievous boy	
(3) to write and edit	any text	(4) None of these	-	