

MCA - Model Questions

- 1) A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is:
a) Rs. 650 b) Rs.690 c) Rs. 698 d) Rs.700
- 2) $3889 + 12.952 - ? = 3854.002$
a) 47.095 b) 47.752 c) 47.932 d) 47.95
- 3) A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?
a) 3 b) 4 c) 5 d) 6
- 4) If $a - b = 3$ and $a^2 + b^2 = 29$, find the value of ab
a) 10 b)12 c)15 d)18
- 5) Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.
a) 4 b) 7 c)9 d)13
- 6) Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a)m. and travels towards B at 20 kmph. Another train starts from B at 8 a)m. and travels towards A at a speed of 25 kmph. At what time will they meet?
a) 9 AM b) 10 AM c) 10.30 AM d) 11 AM
- 7) A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is:
a)2 mph b)2.5 mph c)3 mph d)4 mph
- 8) On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004?
a)Tuesday b)Monday c)Sunday d)Wednesday
- 9) 4 mat-weavers can weave 4 mats in 4 days. At the same rate, how many mats would be woven by 8 mat-weavers in 8 days?
a)4 b)8 c)12 d)16

- 10) A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm³, then the weight of the pipe is:
a) 3.6 kg b) 3.696 kg c) 36 kg d) 36.9 kg
- 11) A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?
a)3 b)4 c)5 d)6
- 12) In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?
a)1/3 b)3/4 c)7/19 d)8/21
- 13) A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:
a)14 Years b)18 Years c)33 Years d)38 Years
- 14) In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?
a)360 b)480 c)720 d)5040
- 15) One-third of Rahul's savings in National Savings Certificate is equal to one-half of his savings in Public Provident Fund) If he has Rs. 1,50,000 as total savings, how much has he saved in Public Provident Fund ?
a)Rs. 30,000 b)Rs. 50,000 c)Rs. 60,000 d)Rs. 90,000
- 16) a
- 17) If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:
a)4 days b)5 days c)6 days d)7 days

- 18) 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?
a)3 b)5 c)7 d)8
- 19) Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:
a)Rs. 169.50 b)Rs. 170 c)Rs. 175.50 d)Rs. 180
- 20) A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by the third pipe alone. The second pipe fills the tank 5 hours faster than the first pipe and 4 hours slower than the third pipe. The time required by the first pipe is:
a)6 hours b)10 hours c)15 hours d)30 hours
- 21) A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:
a)250 b)276 c)280 d)285
- 22) The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is:
a)17Kg b)20kg c)26kg d)31kg
- 23) Rs. 9800 are invested partly in 9% stock at 75 and 10% stock at 80 to have equal amount of incomes. The investment in 9% stock is:
a)Rs. 4800 b)Rs. 5000 c)Rs. 5400 d)Rs. 5600
- 24) The banker's gain of a certain sum due 2 years hence at 10% per annum is Rs. 24. The present worth is:
a)Rs. 480 b)Rs. 520 c)Rs. 600 d)Rs. 960
- 25) A starts business with Rs. 3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital?
a)Rs. 7500 b)Rs. 8000 c)Rs. 8500 d)Rs. 9000


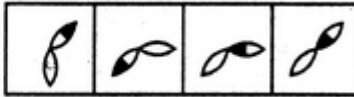
- 26) An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is:
a)2% b)2.02% c)4% d)4.04%
- 27) What will be the compound interest on a sum of Rs. 25,000 after 3 years at the rate of 12 p.c.p.a)?
a)Rs. 9000.30 b)Rs. 9720 c)Rs. 10123.20 d)Rs. 10483.20
- 28) a
- 29) A trader owes a merchant Rs. 10,028 due 1 year hence. The trader wants to settle the account after 3 months. If the rate of interest 12% per annum, how much cash should he pay?
a)Rs. 9025.20 b)Rs. 9200 c)Rs. 9600 d)Rs. 9560
- 30) a
- 31) Look at this series: 31, 29, 24, 22, 17, ... What number should come next?
a)15 b)4 c)13 d)12
- 32) Look at this series: 2, 4, 6, 8, 10, ... What number should come next?
a)11 b)12 c)13 d)14
- 33) Look at this series: 14, 28, 20, 40, 32, 64, ... What number should come next?
a)52 b)56 c)96 d)128

- 34) SCD, TEF, UGH, _____, WKL
 a) CMN b) UJI c) VIJ d) IJT
- 35) QPO, NML, KJI, _____, EDC
 a) HGF b) CAB c) JKL d) GHI

II



- 36) Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures: Answer Figures:

(A)	(B)	(C)	(D)	(1)	(2)	(3)	(4)
							
a)1	b)2	c)3		d)4			

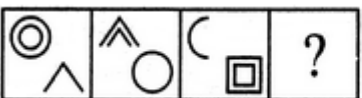
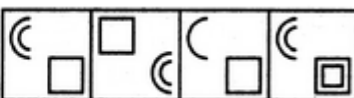
- 37) Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures: Answer Figures:

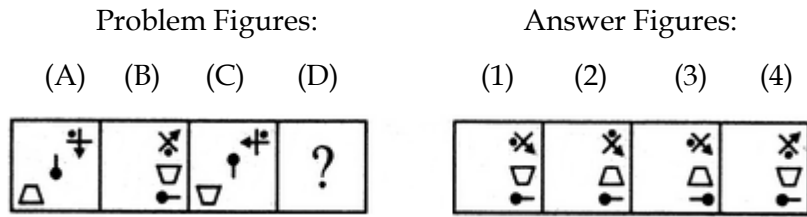
(A)	(B)	(C)	(D)	(1)	(2)	(3)	(4)
							
a)1	b)2	c)3		d)4			

- 38) Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures: Answer Figures:

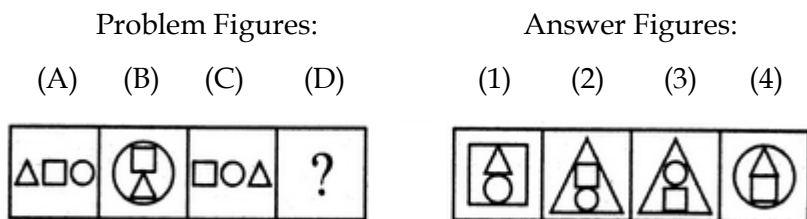
(A)	(B)	(C)	(D)	(1)	(2)	(3)	(4)
							
a)1	b)2	c)3		d)4			

- 39) Select a suitable figure from the Answer Figures that would replace the question mark (?).



- a)1 b)2 c)3 d)4

- 40) Select a suitable figure from the Answer Figures that would replace the question mark (?).

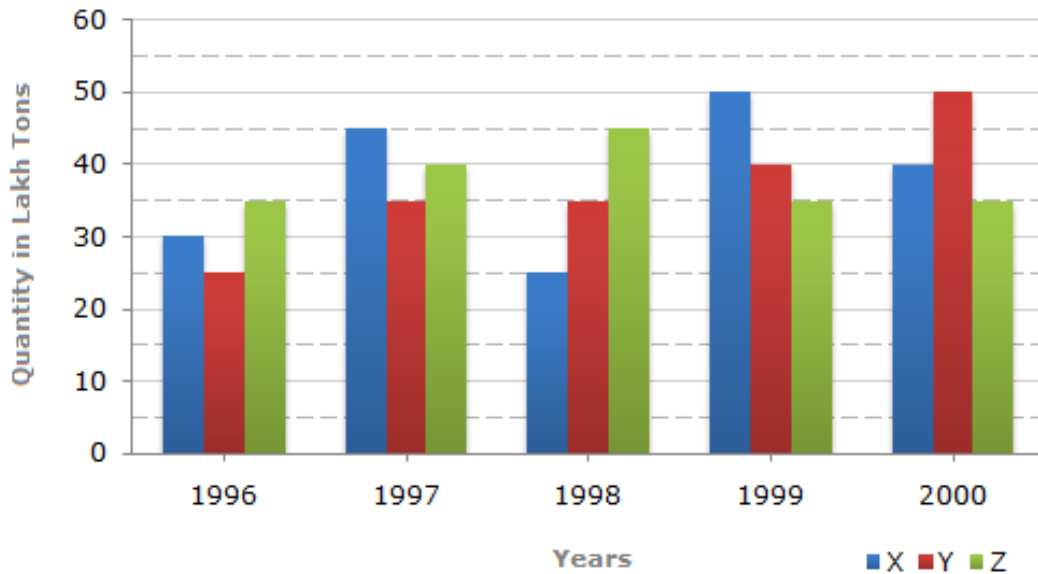


- a)1 b)2 c)3 d)4

IV. Choose the word which is different from the rest.

- 41) a)Cumin b)Groundnut c)Cinnamon d)Pepper
- 42) a)Sweep b)Stain c)Scrub d)Wash
- 43) a)Spectacles b)Goggles c)Binoculars d)Microphone
- 44) choose the word which is the exact OPPOSITE
VANITY
a)Pride b)Humility c)Conceit d)Ostentious
- 45) choose the word which is the exact OPPOSITE
ARTIFICIAL
a)Red b)Natural c)Truthful d)Solid

V. The bar graph given below shows the data of the production of paper (in lakh tonnes) by three different companies X, Y and Z over the years. Production of Paper (in lakh tonnes) by Three Companies X, Y and Z over the Years.



- 46) For which of the following years, the percentage rise/fall in production from the previous year is the maximum for Company Y?
a)1997 b)1998 c)1999 d)2000
- 47) What is the ratio of the average production of Company X in the period 1998-2000 to the average production of Company Y in the same period?
a)1:1 b)15:17 c)23:25 d)27:29
- 48) The average production for five years was maximum for which company?
a)X b)Y c)Z d)X and Z both
- 49) In which year was the percentage of production of Company Z to the production of Company Y the maximum?
a)1996 b)1997 c)1998 d)1999
- 50) What is the percentage increase in the production of Company Y from 1996 to 1999?
a)30% b)45% c)50% d)60%

VI. Identify the relationship between the word pair in the question. Select the answer where the word pair shown has the most similar relationship.

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship

- 51) TEN:DECIMAL
a) seven:septet b) four:quartet c)two:binary d)five:quince
- 52) MUNDANE:SPIRITUAL
a) common:ghostly b) worldly:unworldly
c) routine:novel d) secular:clerical
- 53) ARMY:LOGISTICS
a) business:strategy b) soldier:students
c) war:logic d) team:individual
- 54) GRAVITY:PULL
a) iron:metal b) northpole:directions
c) magnetism:attraction d) dust:desert
- 55) FILTER:WATER
a)curtail:activity b)expunge:book c)edit:text d)ensor:play
- 56) Words inscribed on tomb
a)Epitome b)Epistle c)Epilogue d)Epitaph
- 57) One who is fond of fighting
a)Bellicose b)Aggressive c)Belligerent d)Militant
- 58) A small shop that sells fashionable clothes, cosmetics, etc)
a)Store b)Stall c)Boutique d)Booth
- 59) The study of ancient societies
a)Anthropology b)Archaeology c)History d)Ethnology

- 71) Which of the following should be the fourth sentence in the paragraph?
 a) 1 b) 2 c) 3 d) 4
- 72) Which of the following should be the last sentence in the paragraph?
 a) 1 b) 2 c) 3 d) 4
- 73) Which of the following should be the third sentence in the paragraph?
 a) 1 b) 2 c) 3 d) 4
- 74) Which of the following should be the second sentence in the paragraph?
 a) 1 b) 2 c) 3 d) 4
- 75) Which of the following should be the first sentence in the paragraph?
 a) 1 b) 2 c) 3 d) 4

XI Read the following paragraph and answer questions given below[From 76 to 79]

What needs to be set right is our approach to work. It is a common sight in our country of employees reporting for duty on time and at the same time doing little work. If an assessment is made of time they spent in gossiping, drinking tea, eating "pan" and smoking cigarettes, it will be shocking to know that the time devoted to actual work is negligible. The problem is the standard which the leadership in administration sets for the staff. Forget the ministers because they mix politics and administration. What do top bureaucrats do? What do the below down officials do? The administration set up remains weak mainly because the employees do not have the right example to follow and they are more concerned about being in the good books of the bosses than doing work

- 76) The employees in our country
 a) are quite punctual but not duty conscious
 b) are not punctual, but somehow manage to complete their work
 c) are somewhat lazy but good natured
 d) are not very highly qualified
- 77) According to the writer, the administration in India
 a) is by and large effective b) is very strict and firm
 c) is affected by red tape d) is more or less ineffective

- 78) The word 'assessment' means
a) enquiry b) report c) evaluation d) summary
- 79) The leadership in administration
a) sets a fine example to the employees b) is of a reasonably high standard
c) is composed of idealists d) is of a very poor standard
- 80) The central idea of passage could be best expressed by the following
a) The employee outlook towards work is justified
b) The employee must change their outlook towards work
c) The employees would never change their work culture
d) The employer-employee relationship is far from healthy

XII Read the following sentences carefully and answer the following

- 81) Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?
a)200 b) 250 c) 300 d) 350
- 82) A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." The woman's age is
a)23 years b)34 years c)45 years d)35 years
- 83) A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?
a)45 b)60 c)75 d)90
- 84) What is the product of all the numbers in the dial of a telephone ?
a)1,58,480 b)1,59,450 c)1,59,480 d)1,59,481
- 85) A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C to D?
a)2 b)3 c)6 d)12

XIII. Read the following passage and choose the best answer to each question. The questions are to be answered on the basis of what is stated or implied in the passage.

The strength of the electronics industry in Japan is the Japanese ability to organize production and marketing rather than their achievements in original research. The British are generally recognized as a far more inventive collection of individuals, but never seem able to exploit what they invent. There are many examples, from the TSR Z hovercraft, high speed train and Sinclair scooter to the Triumph, BSA and Norton Motorcycle which all prove this sad rule. The Japanese were able to exploits their strengths in marketing and development many years ago, and their success was at first either not understood in the West or was dismissed as something which could have been produced only at their low price. They were sold because they were cheap copies of other people's ideas churned out of a workhouse which was dedicated to hard grind above all else

- 86) It is evident from the passage that the strength of a country's industry depends upon
- | | |
|------------------------|------------------------------|
| a) original research | b) international cooperation |
| c) dedicated workforce | d) electronic development |
- 87) The sad rule mentioned in this passage refers to
- a) the inability of the Japanese to be inventive like the British
 - b) the inability of the British to be industrious like the Japanese
 - c) the lack of variety in Japanese inventions
 - d) the poorer marketing ability of British
- 88) The TSR Z hovercraft, high speed train, Sinclair scooter etc) are the symbols of
- | | |
|---------------------|---------------------|
| a) Japanese success | b) British failure |
| c) British success | d) Japanese failure |
- 89) According to the passage, prosperity in industry depends upon
- | | |
|----------------------|-----------------------|
| a) productivity | b) inventiveness |
| c) marketing ability | d) Official patronage |

- 90) The main theme of this passage is
- a) electronic industry in Japan
 - b) industrial comparison between Japan and Britain
 - c) the role of marketing efficiency in industrial prosperity
 - d) the importance of original research in industry

XIV. In the following questions, choose the word which best expresses the meaning of the given word

- 91) VENT
- a) Opening
 - b) Stodge
 - c) End
 - d) Past tense of go
- 92) CANNY
- a) Obstinate
 - b) Handsome
 - c) Clever
 - d) Stout
- 93) AUGUST
- a) Common
 - b) Ridiculous
 - c) Dignified
 - d) Petty

XV. Write antonyms for the following words given.

- 94) QUIESCENT
- a) ACTIVE
 - b) Dormant
 - c) Weak
 - d) Unconcerned
- 95) OBEYING
- a) Ordering
 - b) Following
 - c) Refusing
 - d) Contradicting

XVI Choose the correct answer

- 96) Which of the following projects illustrates a database being designed as a redesign of an existing database?
- a) A database using the Production Department's spreadsheets
 - b) A database designed to produce production reports for a new Production Department manufacturing process
 - c) A database that will combine two databases currently used by the Production Department
 - d) None of the above is correct

- 97) The DBMS acts as an interface between what two components of an enterprise-class database system?
- a) Database application and the database
 - b) Data and the database
 - c) The user and the database application
 - d) Database application and SQL
- 98) If a variable is a pointer to a structure, then which of the following operator is used to access data members of the structure through the pointer variable?
- a) .
 - b) &
 - c) *
 - d) ->
- 99) A pointer is
- a) A keyword used to create variables
 - b) A variable that stores address of an instruction
 - c) A variable that stores address of other variable
 - d) All of the above
- 100) Hitler party which came into power in 1933 is known as
- a) Labour Party
 - b) Nazi Party
 - c) Ku-Klux-Klan
 - d) Democratic Party

Answers

1	C	21	D	41	B	61	C	81	B
2	D	22	D	42	B	62	A	82	B
3	C	23	B	43	D	63	D	83	D
4	A	24	C	44	B	64	B	84	D
5	A	25	D	45	B	65	B	85	C
6	B	26	D	46	A	66	C	86	C
7	A	27	C	47	C	67	A	87	D
8	C	28	C	48	D	68	B	88	B
9	D	29	B	49	A	69	A	89	C
10	B	30	C	50	D	70	B	90	C
11	B	31	A	51	C	71	C	91	A
12	A	32	B	52	B	72	D	92	C
13	A	33	B	53	A	73	A	93	C
14	C	34	C	54	C	74	D	94	A
15	C	35	A	55	D	75	B	95	A
16	D	36	C	56	D	76	A	96	C
17	A	37	A	57	A	77	D	97	A
18	C	38	B	58	C	78	C	98	D
19	C	39	C	59	B	79	D	99	C
20	C	40	C	60	B	80	B	100	B