Seat	
No.	

ENT - 45 Total No. of Pages : 19

Shivaji University, Kolhapur P.G. Entrance Examination M.B.A. (Distance/Executive Mode) Sub. Code: 71136

Day and Date : Sunday, 17-09-2023 Time : 12.00 noon To 01.30 p.m. **Total Marks : 100**

Instructions:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark.
- 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
- 4) Follow the instructions given on OMR Sheet.
- 5) Rough work shall be done on the sheet provided at the end of question paper.
- Ram and Shyam are standing at two ends of a room with a width of 30 m. They start walking towards each other along the width of the room with a Speed of 2 m/s and 1 m/s, respectively. Find the total distance travelled by Ram when he meets Shyam for the third time.
 - A. 110 mB. 112 mC. 120 mD. 100 m
- 2. While going to office, Ramesh travels at a speed of 30 kmph and on his way back, he travels at a speed of 45 kmph. What is his average speed of the whole journey?

A.	45 kmph	B. 36 kmph.
C.	32 kmph	D. 42 kmph

3. Amit and Aman have to travel from Delhi to Jaipur in their respective cars. Amit is driving at 60 kmph while Aman is driving at 90 kmph. Find the Time taken by Aman to reach Jaipur if Amit takes 9 hrs.

A.	6 hours	B. 4 hours
C.	2 hours	D. none of these

4. A builder appoints three construction workers Akash, Sunil and Rakesh on one of his sites. They take 20, 30 and 60 days respectively to do a piece of work. How many days will it take Akash to complete the entire work if he is assisted by Sunil and Rakesh every third day?

A.	10 days	B. 15 days
C.	25 days	D. 30 days

5. Dev completed the school project in 20 days. How many days will Arun take to complete the same work if he is 25% more efficient than Dev?

A.	10 days	B.	12 days
C.	16 days	D.	15 days

6. Sonal and Preeti started working on a project and they can complete the project in 30 days. Sonal worked for 16 days and Preeti completed the remaining work in 44 days. How many days would Preeti have taken to complete the entire project all by herself?

A.	20 days	В.	25 days
C.	55 days	D.	60 days

7. A train running at the speed of 56 km/hr crosses a pole in 18 seconds. What is the length of the train?

A.	200m	B.	250m
C.	325m	D.	280m

8. It takes a 360 m long train 12 seconds to pass a pole. How long will it take to pass a platform 900 m long?

A.	40 seconds	B. 32 seconds
C.	42 seconds	D. 50 seconds

9. A train 300 m long is running at a speed of 54 km/hr. In what time will it pass a bridge 150 m long?

A.	32 seconds	B. 30 seconds
C.	51 seconds	D. 16 seconds

- 10. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
 A. 4
 B. 10
 C. 15
 D. 16
 11. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:
 A. 9000
 B. 9400
 C. 9600
 D. 9800
- 12. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:
 - A. 101B. 107C. 111D. 185
- 13. The difference between simple and compound interests calculated annually on a certain amount for 2 years at 4% per annum is Rs. 1. The amount is
 - A. 625 B. 630
 - C. 640 D. 650

14. The compound interest on Rs. 30,000 at 7% per annum is 4347. The Period is....

- A. 1 B. 2
- C. 3 D. 4
- 15. If the simple interest on a certain amount for 2 years at 5% per annum is Rs. 50, what is the compound interest on the same amount at same rate and for the same period?

A.	Rs. 51.25	B. Rs. 52
C.	Rs. 54.25	D. Rs. 60

16. A shopkeeper takes 10% profit on his goods. He lost 20% of his goods during a theft. What is his loss per cent?

A.	10%	B . 11%

C. 12% D. 15%

- 17. By selling 100 notebooks, a shopkeeper gains the selling price of 20 notebooks. What is his gain percentage?
 - A. 20% B. 25%
 - C. 15% D. None of these
- 18. Manoj bought an AC for Rs. 12,160 and paid Rs. 340 for transportation. Then he sold it for Rs. 12,875. Find his profit.
 - A. 2% B. 3%
 - C. 3.5% D. 4%
- 19. On 8th February 2005, it was Tuesday. Find out the day of the week on the 8th February 2004.
 - A. Sunday B. Monday
 - C. Tuesday D. Wednesday
- 20. Kamla would like to complete all her home work before 10.00 pm in order to watch an important TV programme. She has 40 minutes assignment in each of her five prepared subjects. What is the latest time at which she can start and still complete her home work in time for the programme?

A.	6.40 pm	B. 6.30 pm
C.	7.10 pm	D. 7.20 pm

21. What will be the angle between the minute hand and the hour hand of the clock when the time is 4:20 PM?

А.	10°	B. 20°
C.	25°	D. 45°

- 22. If Z=52 and ACT = 48, then BAT will be equal to
 - A. 39 B. 41 C. 44 D. 46
- 23. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?

A.	246173	B. 214673
C.	214763	D. 216473

- 24. If wall is called window, window is called door, door is called floor, floor is called roof and roof is called ventilator, what will a person stand on?
 - A. Window B. Wall
 - C. Floor D. Roof

25. The present age of Aradhana and Aadrika is in the ratio 3:4. 5 years back, the ratio of their ages was 2:3. What is the present age of Aradhana?

A.	12 years	B. 15 years
C.	20 years	D. 22 years

26. A father is twice as old as his daughter. If 20 years ago, the age of the father was 10 times the age of the daughter, what is the present age of the father?

A.	40 years	B. 32 years
C.	33 years	D. 45 years

27. Arun is 2 years older than Bharat who is twice as old as Charu. If the total of the ages of Arun, Bharat and Charuis 27. then how old is Bharat?

A.	10 years	B. 12 years
C.	15 vears	D. 13 years

28. A bag contains 4 white. 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:

 A. 1/22
 B. 3/22

 C. 2/91
 D. 2/77

29. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

A.	1/2	B. 2/5
C.	8/15	D. 9/20

30. What is the probability of getting a sum 9 from two throws of a dice?

- A. 1/6 B. 1/8
- C. 1/9 D. 1/12

31. The length and breadth of a room are 8 and 6 meters respectively. A cat moves round the room and finally runs along the diagonal to catch a rat in the corner. How many meters does it run?

A.	38	В.	14
C.	10	D.	48

32. Find the area of the sheet required to make a closed cylindrical vessel of height 1m and diameter 140cm.

A.	7.48 m²	B. 7.58 m ²
C.	7.38 m²	D. 7.28 m ²

- 33. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is
 - A. 720 B. 900
 - C. 1200 D. 1800
- 34. At the end of a banquet 10 people shake hands with each other. How many handshakes will there be in total?
 - A. 100 B.45 C. 50 D. 90
- 35. A committee of 3 persons is to be constituted from a group of 2 men and 3 women. In how many ways can this be done?
 - A. 2B. 3C. 5D. 10
- 36. A group consists of 4 girls and 7 boys. In how many ways can a team of 5 members be selected if the team has at least three girls?
 - A. 28 B. 35
 - C. 98 D. 91

37. Choose the figure which is different from the rest.



38. Select a suitable figure from the four alternatives that would complete the figure matrix.



Directions for question No. 39 to 43: Read the following passage carefully and answer the questions given beside.

He saw nothing, he had no knife or sharp instrument, the grating of the window was of iron and he had too often assured himself of its solidity. His furniture consisted of a bed, a chair, a table, a pail, and a jug. The bed had iron clamps, but they were screwed to the wall and it would have required a screwdriver to take them off. Dinesh had but one resource which was to break the jug and with one of the sharp fragments attack the wall. He left the jug fall on the floor and it broke in pieces. He concealed two or three of the sharpest fragments in his bed, leaving the rest on the floor. The breaking of the jug was too natural an accident to excite suspicion, and next morning guard went grumblingly to fetch another, without giving himself the trouble to remove the fragments. Dinesh heard joyfully the key grate in the lock as guard departed.

39. Dinesh was in	^	D' 1		•
	39.	Dinesh	was	ın

	A. a hostel	B. a dining room
	C. an army barracks	D. a prison
40.	Dinesh heard the key grate in the	e lock when the
	A. cell door was shut	B. cell door was opened
	C. storeroom was opened	D. storeroom was shut
41.	The guard left the fragments bec	ause he
	A. didn't notice them	B. wished to punish Dantes
	C. was too lazy to bother	D. wanted Dinesh to clear up
42.	Dinesh probably broke the jug	
	A. in the morning	B. during the night
	C. after breakfast	D. at exactly 3pm
43.	Dinesh was planning to	
	A. carve his name	B. make his escape
	C. tease the guard	D. call for breakfast
44.	Evaluate 896 x 896 =	
	A. 822816	B. 802826
	C. 802836	D. 802806
45.	What is the sum of $5374 + 3750$	+2391 + 7529 =
	A. 19034	B. 19047
	C. 19054	D. 19044
46.	570061/17 =	
	A. 33533	B. 33433
	C. 33033	D. 33133
47.	Multiply 1.6 x 5.17 =	
	A. 13.702	B. 16.64
	C. 13.774	D. None of them

48.	$(.005 \text{ x } 4) + 0.98 \text{ is equal to } \dots$	
	A. 0.1	B. 1
	C. 4	D. 0.01
49.	$(.8 \times .9) + (.05 \times 1.4) =$	
	A. 7.92	B. 0.0792
	C. 0.792	D. None of these
50.	3.52/.8	
	A. 0.4	B. 0.44
	C. 0.004	D. 4.4
51.	(0.98 +4.02) * 0.2 =	
	A. 0.1	B. 1
	C. 4	D. 0.01
52.	(9/16) X (3/4) =	
	A. 7/8	B. 27/4
	C. 72	D. 17
53.	Look at this series: 7, 10, 8, 11, 9,	12, What number should come next?
	A. 7	B. 10
	C. 12	D. 13
54.	Look at this series: 36, 34, 30, 2 next?	28, 24, 1 What number should come
	A. 20	B. 22
	C. 23	D. 26
55.	Look at this series: 22, 21, 23, 22	2, 24, 23, What number should come next?
	A. 22	B. 24
	C. 25	D. 26

- 56. Look at this series: 53, 53, 40, 40, 27, 27..... What number should come next?
 - A. 12 B. 14 C. 27 D. 53
- 57. Look at this series: 31, 29, 24, 22, 17, What number should come next?
 - A. 15. B. 14
 - C. 13 D. 12
- 58. An elevator has a capacity of 18 adults or 30 children. How many children can board the elevator with 12 adults?
 - A. 10B. 6C. 15D. 16
- 59. The ratio of the incomes of Chetan and Dinesh is 3:4. The ratio of their expenditures is 5:7. If each of them saves Rs.200, find the incomes of both?

A.	Rs.600, Rs.800	B. Rs.1200, Rs.1600
C.	Rs. 1500, Rs.2000	D. Rs. 1800, Rs.2400

- 60. The ratio of the number of boys and girls in a college is 7: 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?
 - A. 8:9B. 17:18D. Cannot be determined
- 61. The number of employees is reduced in the ratio 3: 2 and the salary of each employee are increased in the ratio 4: 5. By doing so, the company saves Rs. 12000. What was the initial expenditure on the salary?

A.	Rs. 62,000	В.	Rs.	60,000
C.	Rs. 50,000	D.	Rs.	72,000

62. Salaries of Ravi and Sumit are in the ratio 2: 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40: 57. What is Sumit's salary?

A.	Rs. 17,000	В.	Rs.	20,000
C.	Rs. 25,500	D.	Rs.	38,000

- 63. A man spent 20% of his monthly earning on house rent. Out of the balance, he spent 75% on the other house expenses. If he had a balance of Rs.250 at the end of the month, the monthly earning of the man is
 - A. Rs. 1000 B. Rs. 1500
 - D. Rs. 2500 C. Rs. 1250
- 64. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:
 - A. 39, 30B. 41, 32C. 42, 33D. 43, 34
- 65. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:

A.	588 apples	В.	600 apples
C.	672 apples	D.	700 apples

- 66. An employee's annual salary was increased Rs. 15,000. If her new annual salary now equals Rs. 90,000, what was the per cent increase?
 - A. 15%B. 20%C. 22%D. 24%
- 67. Which of the following is equal to 1/5 of 0.02 per cent?
 - A. 0.4 B. 0.04
 - C. 0.0004 D. 0.00004
- 68. The average salary of all the employees in a small organization is Rs 8,000. The average salary of 7 technicians is Rs 12,000 and the average salary of the rest is Rs 6,000. The total number of employees in the organisation is?
 - A. 21 B. 20
 - C. 26 D. 22
- 69. The average marks of Suresh in 10 papers are 80. If the highest and the lowest scores are not considered, the average is 81. If his highest score is 92, find the lowest score.
 - A. 55 B. 60
 - C. 62 D. Cannot be determined

70. Suraj has a certain average of runs for 12 innings. In the 13th innings he scores 96 runs thereby increasing his average by 5 runs. What is his average after the 13th innings?

A.	48	В	•	64
C.	36	D	•	72

71. The average weight of 8 sailors in a boat is increased by 1 kg if one of them weighing 56 kg is replaced by a new sailor. The weight of the new sailor is?

- A. 57 kg B. 60 kg
- C. 64 kg D. 62 kg
- 72. The average age of P, Q, R, S five years ago was 45 years. By including T, the present average age of all the five is 49 years. The present age of T is?

A.	64 years	B. 48 years
C.	45 years	D. 40 years

- 73. T. P. R. X, S and Z are sitting in a row. S and Z are in the centre. T and P are at the ends. R is sitting to the left of T. Who is to the right of P?
 - A. T B. X
 - C. S D. Z
- 74. Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary. Who is sitting immediate right to Reeta ?
 - A. BinduB. RaniC. MaryD. Seema
- 75. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?
 - A. East B. West
 - C. North D. South

- 76. A man walks 5 km toward south and then turns to the right. After walking 3 km he tums to the left and walks 5 km. Now in which direction is he from the starting place?A. WestB. South
 - C. North-East D. South-West
- 77. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is
 - A. 2 B. 3
 - C. 4 D. Data inadequate
- 78. In a group of cows and hens, the number of legs is 14 more than twice the number of heads. The number of cows is
 - A. 5 B. 7
 - C. 10 D. 12
- 79. A two-digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. The number is:
 - A. 18 B. 24 C. 42 D. 81
- 80. Find the number which when added to itself 13 times, gives 112.
 - A. 7B. 8C. 9D. 11
- 81. Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake?

A.	120 grams	В.	140 grams
C.	240 grams	D.	280 grams

82. A group of 1200 persons consisting of captains and soldiers is travelling in a train. For every 15 soldiers there is one captain. The number of captains in the group is

A. 85 B. 80	A.	85				Β.	80
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C. 75 D. 70

- 83. An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. One the 10th day of business, his income is
 - A. Rs. 2° B. Rs. 210
 - C. Rs. 10 D. Rs. 10
- 84. On Children's Day, sweets were to be equally distributed among 175 children in a school. Actually on the Children's Day, 35 children were absent and therefore each child got 4 sweets extra. Total how many sweets were available for distribution?

A.	2400	B.	2480
C.	2680	D.	2800

Direction for Question No. 85 to Question No. 89: The bar graph given below shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001.



- 85. What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?
 - A. 2:3 B. 3:5
 - C. 4:5 D. 7:9

- 86. Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?
 - A. 68.54% B. 71.11%
 - C. 73.17% D. 75.55%
- 87. What percent of the average sales of branches B1, B2 and B3 in 2001 is the average sales of branches B1, B3 and B6 in 2000?
 - A. 75% B. 77.5%
 - C. 82.5% D. 87.5%
- 88. What is the average sales of all the branches (in thousand numbers) for the year 2000?

A.	73	В.	80
C.	83	D.	88

89. Total sales of branches B1, B3 and B5 together for both the years (in thousand numbers) is?

A.	250	B. 310
C.	435	D. 560

Direction for Question No. 90 to Question No. 92: Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

90. Statements

- 1. Standard of living among the middle class society is constantly going up since part of few years.
- II. Indian Economy is observing remarkable growth.
- A. Statement I is the cause and statement II is its effect.
- B. Statement II is the cause and statement I is its effect.
- C. Both the statements I and II are independent causes.
- D. Both the statements I and II are effects of independent causes.

- 91. Statements
 - I. The government has allowed private airline companies in India to operate to overseas destinations.
 - II. The national air carrier has increased its flights to overseas destinations.
 - A. Statement I is the cause and statement II is its effect.
 - B. Statement II is the cause and statement I is its effect.
 - C. Both the statements I and II are independent causes.
 - D. Both the statements I and II are effects of independent causes.

92. Statements

- 1. Importance of Yoga and exercise is being realized by all sections of the society.
- II. There is an increasing awareness about health in the society particularly among middle ages group of people.
 - A. Statement I is the cause and statement II is its effect.
 - B. Statement II is the cause and statement I is its effect.
 - C. Both the statements I and II are independent causes.
 - D. Both the statements I and II are effects of independent causes.

Direction for Question No. 93 to Question No. 94: In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). Read the conclusions and then decide which of the given conclusions logically follows from the two given statements.

93. Statements: Some actors are singers. All the singers are dancers.

Conclusions:

- 1. Some actors are dancers.
- 2. No singer is actor.
 - A. Only (1) conclusion follows
 - B. Only (2) conclusion follows
 - C. Neither (1) nor (2) follows
 - D. Both (1) and (2) follow

94. Statements: All the windows are doors. No door is a wall.

Conclusions:

- 1. Some windows are walls.
- 2. No wall is a door.
 - A. Only (1) conclusion follows
 - B. Only (2) conclusion follows
 - C. Neither (1) nor (2) follows
 - D. Both (1) and (2) follow
- 95. In cities throughout the country, there is a new direction in local campaign coverage. Frequently in local elections, journalists are not giving voters enough information to understand the issues and evaluate the candidates. The local news media devotes too much time to scandal and not enough time to policy.

This paragraph best supports the statement that the local news media

- A. is not doing an adequate job when it comes to covering local campaigns.
- B. does not understand either campaign issues or politics.
- C. should learn how to cover politics by watching the national news media.
- D. has no interest in covering stories about local political events.
- 96. The entire low-carbohydrate versus low-fat diet argument is so prevalent that one would think that these are the only two options available for losing weight and staying healthy. Some experts even feel that the low-carb/low-fat debate distracts us from an even more important issue our culture's reliance on processed and manufactured foods.

The paragraph best supports the statement that

- A. experts state that not all fats are equal, so we need not reduce our intake of all fats; just those that contain partially hydrogenated oils.
- B. important health concerns get overlooked when we focus exclusively on the low-fat versus low-carb question.
- C. low-carbohydrate diets lead to significant and sustained weight loss.
- D. processed foods can lead to many adverse health problems including heart disease, cancer, diabetes, and obesity.

97. More and more office workers telecommute from offices in their own homes. The upside of telecommuting is both greater productivity and greater flexibility. Telecommuters produce, on average, 20% more than if they were to work in an office, and their flexible schedule allows them to balance both their family and work responsibilities.

The paragraph best supports the statement that telecommuters

- A. get more work done in a given time period than workers who travel to the office.
- B. produce a better quality work product than workers who travel to the office.
- C. are more flexible in their ideas than workers who travel to the office.
- D. would do 20% more work if they were to work in an office.
- 98. Many animals hibernate during parts of the year, entering a state that is similar to a very deep sleep. But hibernation is more than simply a deep sleep. The animal's body temperature drops well below its normal range, the animal does not wake up for a long period of time, and its metabolism slows to the point that the animal does not need to eat or relieve itself during that period. In order to prepare for hibernation, the animal must build up its body weight and increase its body fat. This is important, since the animal will be living off its own body fat during the months of hibernation. Of course, once the period of hibernation is over, the animal "wakes up" to find itself slim and trim once again! This passage best supports the statement that
 - A. all animals hibernate to some degree.
 - B. food is scarce in the winter.
 - C. hibernation is very different from normal sleep.
 - D. bears hibernate every year.
- 99. It is well known that the world urgently needs adequate distribution of food, so that everyone gets enough. Adequate distribution of medicine is just as urgent. Medical expertise and medical supplies need to be redistributed throughout the world so that people in emerging nations will have proper medical care.

This paragraph best supports the statement that

- A. the majority of the people in the world have no medical care.
- B. medical resources in emerging nations have diminished in the past few years.

- C. not enough doctors give time and money to those in need of medical care.
- D. many people who live in emerging nations are not receiving proper medical care.
- 100. Before you begin to compose a business letter, sit down and think about your purpose in writing the letter. Do you want to request information, order a product, register a complaint, or apply for something? Do some brainstorming and gather information before you begin writing. Always keep your objective in mind. The main idea of the passage is that
 - A. planning is an important part of writing a business letter.
 - B. business letters are frequently complaint letters.
 - C. brainstorming and writing take approximately equal amounts of time.
 - D. many people fail to plan ahead when they are writing a business letter.

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