

Seat No.	
-------------	--

M.B.A. Entrance (Distance Mode) Examination, November - 2020**Day and Date : Sunday, 22 - 11 - 2020****Total Marks : 100****Time : 12.00 noon to 01.30 p.m.**

- Instructions :**
- 1) Do not write anything on the Question Booklet. Blank page is attached for rough work.
 - 2) Separate answer sheet is provided to answer the questions.
 - 3) All questions are compulsory.
 - 4) Each question carries one mark. Select the correct alternative from (A), (B), (C), (D) and blacken the oval bearing right answer.
 - 5) This is to be done in a given Answer Sheet. Use only black ball point pen.
 - 6) Calculators, Mobiles and Pagers are not allowed.

- 1) The distance between 16 poles is 480 meters. All poles are at equal distance. Then what is the distance between the 5th and 9th pole?
(A) 120 m (B) 128 m
(C) 150 m (D) 100 m
- 2) Pramod goes 6 km to the east. Then he goes 8 km to the south. How far is he from the original place?
(A) 14 km (B) 13 km
(C) 75 km (D) 10 km
- 3) If the L.C.M. of two consecutive even numbers is 544, then these numbers are _____.
(A) 34 & 36 (B) 32 & 34
(C) 22 & 24 (D) 42 & 44

- 4) If the profit on cost price of an article is 20%, the percentage of profit when calculated on its sale price is _____ .
- (A) 16 (B) $16\frac{2}{3}$
- (C) 20 (D) $20\frac{2}{3}$
- 5) The area of a right angled triangle whose hypotenuse is 10 cm and base 8 cm is _____ .
- (A) 34 sq.cm (B) 36 sq.cm
- (C) 24 sq.cm (D) 48 sq.cm
- 6) Speed of a boat in still water is 9 km/hr. It goes 12 km down stream and comes back to the starting point in three hours. What is the speed of water in the stream?
- (A) 3.5 km/hr (B) 3 km/hr
- (C) 5 km/hr (D) 5.5 km/hr
- 7) The LCM of two numbers is 1296 and HCF is 96. If one of the numbers is 864, then the other is _____
- (A) 72 (B) 64
- (C) 144 (D) 36
- 8) A man wants to reach a window which is 40 feet above the ground. The distance from the foot of the ladder to the wall is 9 feet. How long should the ladder be ?
- (A) 9 feet (B) 81 feet
- (C) 41 feet (D) 49 feet
- 9) There are eight mango trees in a straight line. The distance between each mango tree with other is 3 meters. What is the distance between first tree and eighth tree?
- (A) 24 m (B) 27 m
- (C) 30 m (D) 21 m

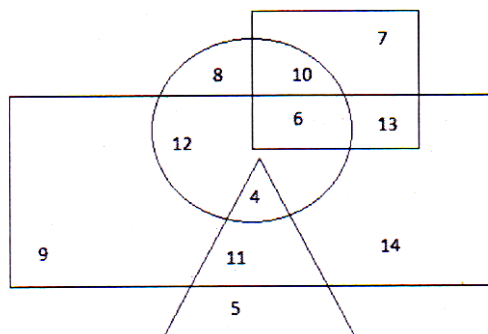
ENT – 49

- 10) 4 men & 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it?
- (A) 35 days (B) 40 days
(C) 30 days (D) 25 days
- 11) A student is ranked 13th from right and 8th from left. How many students are there in total?
- (A) 18 (B) 19
(C) 20 (D) 21
- 12) Rs. 20400 was divided in two parts and then invested. One part invested at 6.25% for 8 years yields the same interest as the other part invested at 7% for 5 years. What is the value of smaller part?
- (A) 9600 (B) 8400
(C) 10100 (D) 6500
- 13) The population of a city is 50,000 at present. It increases at the rate of 10% per annum. What will be its population 3 yr from now?
- (A) 67,250 (B) 65,550
(C) 60,500 (D) 66,550
- 14) 12 years ago, age of P was 3 times the age of Q. After 12 years, ratio of ages of Q to P will be 2:3. What is the present age of P?
- (A) 54 years (B) 36 years
(C) 24 years (D) 144 years
- 15) The simple interest on Rs. 5000 at 6 % per annum for the period from 5th Feb to 19th April, 2015 is _____ .
- (A) Rs. 40 (B) Rs. 50
(C) Rs. 60 (D) Rs. 70

ENT – 49

- 16) Suresh borrows Rs. 10,000 for 2 years at 4 % p.a. simple interest. He lends it to Ramesh at 6 % p.a. for 2 years. What is his gain in this transaction per year?
- (A) Rs. 150 (B) Rs. 200
(C) Rs. 400 (D) Rs. 450
- 17) At what rate percent per annum will sum of money double in 20 years?
- (A) 1.2% (B) 2%
(C) 4% (D) 5%
- 18) In a class of 100 students, 50 students passed in Mathematics and 70 passed in English, 5 students failed in both Mathematics and English. How many students passed in both the subjects?
- (A) 50 (B) 40
(C) 35 (D) 25
- 19) The perimeter of a rectangular field is 480 meters and the ratio between the length and breadth is 5:3. The area of the field is _____.
- (A) 11,500 m² (B) 12,500 m²
(C) 13,500 m² (D) 14,500 m²
- 20) Pipe A can fill a tank in 20 minutes and Pipe B in 30 minutes and Pipe C can empty the same in 40 minutes. If all of them work together, What is the time taken to fill the tank?
- (A) $15\frac{1}{7}$ minutes (B) $12\frac{1}{7}$ minutes
(C) $17\frac{1}{7}$ minutes (D) $10\frac{1}{7}$ minutes
- 21) The length of a rectangular field is thrice its breadth. If the cost of cultivating the field at Rs. 367.20 per square meter is Rs. 27,540, then what is the perimeter of the rectangle?
- (A) 47 m (B) 39 m
(C) 52 m (D) 40 m

Directions : (Qs. 22 to 26) : The following questions are based on the diagram given below. (Note : Rectangular represents males , Triangle represents Educated, circle represents urban, Square represents civil servants)



22) Who among the following is an educated male who is not an urban resident?

- (A) 4 (B) 5
(C) 9 (D) 11

23) Who among the following is a female urban resident and also a civil servant?

- (A) 6 (B) 7
(C) 10 (D) 13

24) Who among the following is a male urban oriented and also a civil servant but not educated?

- (A) 13 (B) 12
(C) 6 (D) 10

25) Who among the following is only civil servant but not a male nor urban oriented and uneducated?

- (A) 7 (B) 8
(C) 9 (D) 14

26) Who among the following is neither educated nor belongs to urban area?

- | | |
|-------|--------|
| (A) 7 | (B) 13 |
| (C) 4 | (D) 10 |

27) **CALANDER** is coded in a code as **CLANAEDR**. Find the code for **CIRCULAR** under the same rule.

- | | |
|--------------|-------------------|
| (A) LACANDER | (B) CRIUCALR |
| (C) CLANADER | (D) None of these |

28) In a code language **35796** is written as **44887**. Find the code for **46823**.

- | | |
|-----------|-----------|
| (A) 55914 | (B) 57194 |
| (C) 55934 | (D) 55745 |

29) If **LIGHT** is coded as **GILTH**, find the code for **RAINY**.

- | | |
|-----------|-----------|
| (A) IARYN | (B) ARINY |
| (C) NAIRY | (D) RINAY |

30) Insert the arithmetical signs in the following numerical figures.

$$9 _ 6 _ 3 = 27$$

- | | |
|----------|----------|
| (A) +, x | (B) -, + |
| (C) /, + | (D) +, / |

ENT – 49

Directions: (Qs. 31 to 40): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, four words are suggested, one of which fits the blank appropriately. Find the appropriate word in each case.

Democracy and military rule and ----- (31) ----- . That is ----- (32) ----- whenever a military man comes into politics many eyebrows are ----- (33) ----- . Although even in a democracy like the United states. Generals like Eisenhower reached the highest office are ----- (34) ----- the democracy as good as any civilian would, yet owing to the Japanese experience of ----- (35) ----- in 1930s and its ----- (36) ----- for excesses during the second world war, some questions have been ----- (37) ----- on Generals and politics. In reality, the problem ----- (38) ----- no with the military officers ----- (39) ----- politics ----- (40) ----- but in the excess of militarization of politics or politicisation of military.

- 31) (A) equivalent (B) antonyms (C) interchangeable (D) unreliable
- 32) (A) because (B) obvious (C) proved (D) precisely
- 33) (A) painted (B) darkened (C) raised (D) cut
- 34) (A) served (B) dominated (C) dethroned (D) ruled
- 35) (A) secularism (B) elections (C) liberation (D) militarism
- 36) (A) fondness (B) negligence (C) promptness (D) responsibilities
- 37) (A) raised (B) answered (C) asked (D) bombarded
- 38) (A) solves (B) lies (C) circles (D) ends
- 39) (A) condemning (B) praising (C) abandoning (D) entering
- 40) (A) forcibly (B) gracefully (C) democratically (D) unceremoniously

Directions : (Qs. 41 to 45): What should come in the place of question mark (?) in the following letter series based on the English alphabetical order?

41) BEH, DGJ, (?), EJO, GLQ, INS,

(A) FLR

(B) FIS

(C) FKO

(D) FIL

42) APZLT, CQYNR, ERXPP, GSWRN, (?)

(A) KVIJUI

(B) JUUVK

(C) ITVTL

(D) KUUVJ

43) RAP, MAP, HOT, FUN, (?)

(A) HNE

(B) PGI

(C) STN

(D) CAT

44) J, F, M, A, M, (?)

(A) M

(B) J

(C) D

(D) S

45) EV, JQ, OL, (?)

(A) TH

(B) TG

(C) FT

(D) US

46) Find the next term in the series: 3, 6, 9, 18, 27, 54, _____.

(A) 81

(B) 69

(C) 108

(D) 72

ENT – 49

- 47) What is the sum of two consecutive even numbers, the difference of whose squares is 84?
- (A) 32 (B) 34
(C) 38 (D) 42
- 48) The sum of the digits of a two digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, then what will be the original number?
- (A) 93 (B) 28
(C) 48 (D) 39
- 49) A shopkeeper purchased 200 bulbs for Rs. 10 each. However, 5 bulbs were fused and had to be thrown away. The remaining were sold at Rs. 12 each. What will be the percentage profit?
- (A) 13 (B) 15
(C) 17 (D) 22
- 50) If 15% of Y is same as 21% of Z, then 12.5% of Y is equal to what per cent of Z?
- (A) 20% (B) 17.5%
(C) 13% (D) 9.5%
- 51) In a class, 15% of total number of students failed in Science, 25% of total number of students failed in Mathematics and 10% of total number of students failed in both. How much percentage of students passed in both Mathematics and Science?
- (A) 70% (B) 80%
(C) 60% (D) 90%

ENT – 49

- 52) Average age of a family of 4 members was 19 years, 4 years back. Birth of a new child kept the average age of the family same even today. How old is the child today?
- (A) 4 years (B) 1 year
(C) 2 years (D) 3 years
- 53) What will be difference in population 3 years ago and 2 years ago of Devon village, whose current population is 100000 and which is increasing at a rate of 25% every year?
- (A) 15250 (B) 13900
(C) 16400 (D) 12800
- 54) $0.02 = \underline{\hspace{2cm}}\%$.
- (A) 20 (B) 0.2
(C) 0.02 (D) 2
- 55) The sum of first 45 natural number is $\underline{\hspace{2cm}}$.
- (A) 2070 (B) 1035
(C) 1280 (D) 2140
- 56) If $\sqrt{3^n} = 81$. Then $n = \underline{\hspace{2cm}}$.
- (A) 6 (B) 2
(C) 8 (D) 4
- 57) If $0.003 \times 0.03 \times 0.3 \times x = 0.54$, then what is x ?
- (A) 0.06 (B) 200
(C) 27 (D) 20000

58) If $6 \times 0.03 \div 0.2 = m$, then $m = ?$

- (A) 9 (B) 0.09
(C) 0.9 (D) 3.68

59) $6.75 \times 5.5 + 5.5 \times 3.25 = ?$

- (A) 55 (B) 1100
(C) 550 (D) 5500

60) $5(16 - 2) \div 10 - 5 + 1 \times 0 = ?$

- (A) 2 (B) 1
(C) 0 (D) 3

61) In a mixture 60 liters, the ratio of milk and water 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is:

- (A) 20 liters (B) 30 liters
(C) 40 liters (D) 60 liters

62) 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 : 9 (B) 17 : 18
(C) 21 : 22 (D) cannot be determined

63) The average of a seven members committee is 42 years, a year after one member retired at the age of 60 years and new member joined at the age of 46 years. The current average age of the committee is _____

- (A) 42 (B) 41
(C) 43 (D) 40

64) If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is:

- (A) 53.33 (B) 54.68
(C) 55 (D) none of these

65) The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

- (A) 76 kg (B) 76.5 kg
(C) 85 kg (D) none of these

Directions: (Qs. 66 to 70) : Each of the following questions contains information relating to the relationship between the members of a family. Study the information carefully and choose the correct alternative.

66) Deb is Anil's brother. Deb is son of Chandra. Bhim is Chandra's father. How is Anil related to Bhim?

- (A) Nephew (B) Grandson
(C) Son (D) None of these

67) Renuka's mother is the only daughter of Mini's father. How is Mini's husband related to Renuka?

- (A) Grandfather (B) Father
(C) Brother (D) None of these

68) Dinesh is brother of Raju. Rina is sister of Aman. Ravi is Rina's son. How Dinesh related to Rina?

- (A) Nephew (B) Brother
(C) Son (D) Cannot be ascertained

ENT – 49

69) Given that i) A is B's brother ii) C is A's father iii) D is E's brother iv) E is B's daughter. Then who is D's uncle?

(A) A

(B) C

(C) B

(D) D

70) A is father of C and D is son of B. E is A's brother. If C is D's sister, how is B related to E?

(A) Husband

(B) Daughter

(C) Sister - in - law

(D) None of these

Directions: (Qs. 71 to 75) : Study the following table and answer the questions based on it.

Item of Expenditure/Year	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.38	36.4	88
2002	420	142	3.96	49.4	98

71) The ratio between the total expenditure on taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately _____

(A) 4:7

(B) 10:13

(C) 15:18

(D) 5:8

72) In the given table, the total expenditure of the Company over these items during the year 2000 is Rs. _____

(A) 544.44 Lakhs

(B) 501.11 Lakhs

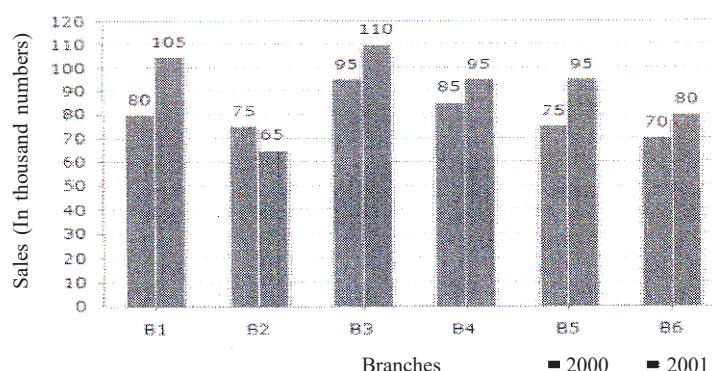
(C) 446.46 Lakhs

(D) 478.87 Lakhs

- 73) What is the average amount of interest per year which the Company had to pay during this period?
- (A) Rs. 32.43 lakhs (B) Rs. 33.72 lakhs
(C) Rs. 36.66 lakhs (D) Rs. 35.69 lakhs
- 74) Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?
- (A) 62% (B) 66%
(C) 69% (D) 71%
- 75) The total amount of bonus paid by the Company during the given period is approximately. What percent of the total amount of salary paid during this period?
- (A) 0.1% (B) 0.5%
(C) 1% (D) 1.25%

Directions : (Qs. 76 to 79) : 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. Study the bar graph and answer questions below :

Sales of Books (in thousand numbers) from Six Branches - B1, B2, B3, B4, B5 and B6 of a publishing Company in 2000 and 2001.



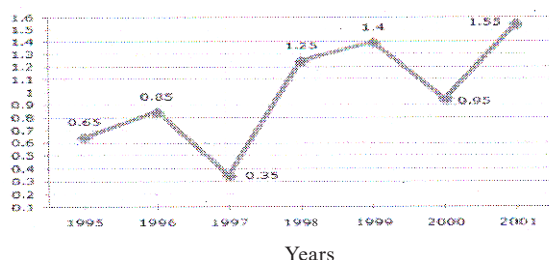
- 76) What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?
- (A) 2:3 (B) 3:5
(C) 4:5 (D) 7:9

ENT – 49

- 77) Total sales of branch B6 for both the years is what percent of the total sales of branch B3 for both the years?
- (A) 68.54% (B) 71.11%
(C) 73.17% (D) 75.55%
- 78) What is the average sales of all the branches (in thousand numbers) for the year 2000?
- (A) 73 (B) 80
(C) 83 (D) 88
- 79) 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

Directions : (Qs. 80 to 83) : The following line graph gives the ratio of the amounts of imports by a company to the amount of exports from that company over the period from 1995 to 2001. Study the line graph and answer the questions given below :

Ratio of value of Imports to Exports by a Company Over the Years.

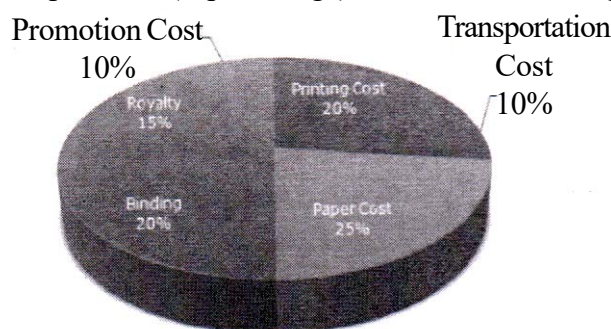


- 80) The imports were minimum proportionate to the exports of the company in the year ?
- (A) 1995 (B) 1996
(C) 1997 (D) 2000
- 81) What was the percentage increase in imports from 1997 to 1998 ?
- (A) 72 (B) 56
(C) 28 (D) Data inadequate

- 82) If the imports of the company in 1996 was Rs. 2 720 000 000, the exports from the company in 1996 was ?
- (A) 3 700 000 000 (B) 3 200 000 000
(C) 2 800 000 000 (D) 2 750 000 000
- 83) In how many of the given years were the exports more than the imports ?
- (A) 1 (B) 2
(C) 3 (D) 4

Directions : (Qs. 84 to 90) : The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the question based on it.

Various Expenditure (in percentage) Incurred in Publishing a Book



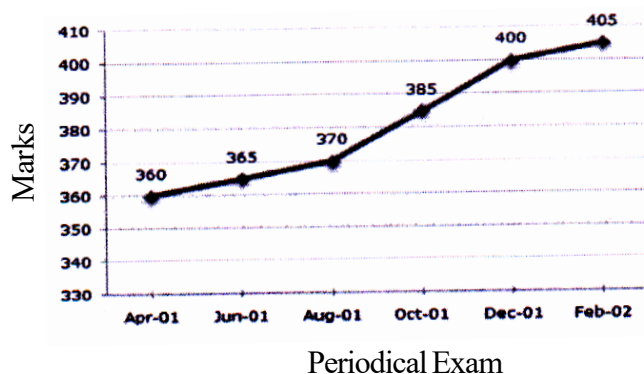
- 84) If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?
- (A) Rs. 19,450 (B) Rs. 21,200
(C) Rs. 22,950 (D) Rs. 26,150
- 85) What is the central angle of the sector corresponding to the expenditure incurred on Royalty?
- (A) 15 (B) 24
(C) 54 (D) 48
- 86) The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?
- (A) Rs. 36 (B) Rs. 37.50
(C) Rs. 42 (D) Rs. 44.25

- 87) If 5,500 copies are published and the transportation cost on them amounts to Rs. 82,500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?
- (A) Rs. 187.50 (B) Rs. 191.50
(C) Rs. 175 (D) Rs. 180
- 88) Royalty on the book is less than the printing cost by:
- (A) 5% (B) $33\frac{1}{5}\%$
(C) 20% (D) 25%
- 89) For an edition of 12,500 copies, the amount of Royalty paid by the publisher is Rs. 2,81,250. What should be the selling price of the book if the publisher desires a profit of 5%?
- (A) Rs. 152.50 (B) Rs. 157.50
(C) Rs. 162.50 (D) Rs. 167.50
- 90) If for an edition of the book, the cost of paper is Rs.56,250, then find the promotion cost for this edition.
- (A) Rs. 20,000 (B) Rs. 22,500
(C) Rs. 25,500 (D) Rs. 28,125

Directions : (Qs. 91 to 94) : In a school the periodical examination are held every second month. In a session during April 2001 - March 2002, a student of Class IX appeared for each of the periodical exams. The aggregate marks obtained by him in each periodical exam are represented in the line-chart given below. Study the line-chart and answer the questions given below.

Marks Obtained by student in Six Periodical Held in Every Two Months
During the Year in the Session 2001-2002.

Maximum Total Marks in each Periodical Exam = 500



- 91)** In which periodical examination did the student obtain the highest percentage increase in marks over the previous periodical examination?
 (A) June, 01 (B) August, 01
 (C) October, 01 (D) December, 01
- 92)** The total number of marks obtained in Feb. 02 is what percent of the total marks obtained in April 01?
 (A) 110% (B) 112.5%
 (C) 115% (D) 116.5%
- 93)** What is the percentage of marks obtained by the student in the periodical examination of August, 01 and Oct., 01 taken together?
 (A) 73.25% (B) 75.5%
 (C) 77% (D) 78.75%
- 94)** What are the average marks obtained by the student in all the periodical exams during the last session based on the line chart?
 (A) 373 (B) 379
 (C) 381 (D) 385

Directions: (Qs. 95 to 100) : Two statements are followed by two possible conclusions. You are to point out which of the following answer choices applies to each of the following questions. Assume the statements to be correct even if they vary from the facts.

- (A) Only conclusion I follows.
 (B) Only conclusion II follows.
 (C) Both conclusions I & II follows
 (D) Neither conclusion I nor II follows.
- 95)** All watches are cameras. Some cameras are mobiles. So
 I) All cameras are watches
 II) Some watches are mobiles
 (A) (B)
 (C) (D)

96) Some books are hooks. No book is screw. So

I) Some screws are not books.

II) Some hooks are not screws.

(A) (B)

(C) (D)

97) All pilots are brave men. All astronauts are pilots. So

I) All astronauts are brave men.

II) Some pilots are astronauts.

(A) (B)

(C) (D)

98) All fish are tortoise. No tortoise is a crocodile. So

I) No crocodile is a fish.

II) No fish is a crocodile.

(A) (B)

(C) (D)

99) All rats are boats. No boat is a cat. So

I) No rat is a cat.

II) All cats are rats.

(A) (B)

(C) (D)

100) All teachers are good. Some women are teachers. So

I) All good teachers are women.

II) Some women are good.

(A) (B)

(C) (D)



Rough Work