

Seat No.	
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**P.G. Entrance Examination, May - 2023****M.B.A. (Distance/Executive Mode)****Sub. Code: 71136****Day and Date : Thursday, 11- 05 - 2023****Total Marks : 100****Time : 3.30 p.m. to 5.00 p.m.**

- 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.

- 1) An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in  $1\frac{2}{3}$  hours, it must travel at a speed of?  

A) 300 mph	B) 360 kmph
C) 600 kmph	D) 720 kmph
- 2) What will be the cost of gardening 1-meter boundary around a rectangular plot having a perimeter of 340 meters at the rate of Rs. 10 per square meter?  

A) Rs. 3430	B) Rs. 3440
C) Rs. 3450	D) Rs. 3460
- 3) A man buys an article for Rs. 27.50 and sells it for Rs. 28.60. Find his gain percent.  

A) 1%	B) 2%
C) 3%	D) 4%

**P.T.O.**

## ENT - 05

- 4) The mean weight of a group of seven boys is 56 kg. The individual weights (in kg) of six of them are 52, 57, 55, 60, 59 and 55. Find the weight of the seventh boy.
- A) 64    B) 54  
C) 88    D) 28
- 5) Average of 16 numbers is 8. If 2 is added to every number, the new average will be \_\_\_\_\_.
- A) 13    B) 9  
C) 10    D) 8
- 6) Find the odd man out. 1, 3, 9, 12, 19, 29.
- A) 12    B) 9  
C) 1     D) 3
- 7) If  $6^m = 46656$ , what is the value of  $6^{m-2}$ ?
- A) 36    B) 7776  
C) 216     D) 1296
- 8) A, B and C take a work at Rs. 24,000. A alone can do the work in 20 days, B alone can do the same work in 30 days and C alone can do the same work in 24 days. Find the wages of A.
- A) Rs. 9,400                                      B) Rs. 6,500  
C) Rs. 6,480                                    D) Rs. 9,600
- 9) The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is \_\_\_\_\_.
- A) 127     B) 305  
C) 235     D) 123
- 10) In a game of 200 m race, A can win B by 50 m and B can win C by 8 m. In the same race, A can win C by \_\_\_\_\_.
- A) 52 m    B) 58 m  
C) 56 m    D) 54 m
- 11) A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is \_\_\_\_\_.
- A) Rs. 1,425                                      B) Rs. 1,500  
C) Rs. 1,537.50                                D) Rs. 1,576

- 12) A father said his son, "I was as old as you are at present at the time of your birth." If the father age is 38 now, the son age 5 years back was \_\_\_\_\_.
- A) 14                                      B) 19  
C) 33                                      D) 38
- 13) Find the sum of all the 4 digit numbers that can be formed with the digits 3, 4, 5 and 6.
- A) 119988                                  B) 11988  
C) 191988                                  D) none of these
- 14) In a certain room, there are 28 women and 21 men. What is the ratio of women to the total number of people?
- A) 5 : 4                                      B) 4 : 7  
C) 6 : 3                                      D) 8 : 7
- 15) Three-fourth of a number is 60 more than its one third. The number is \_\_\_\_\_.
- A) 84                                        B) 108  
C) 144                                        D) none of these
- 16) 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)  $\frac{1}{2}$                                         B)  $\frac{3}{5}$   
C)  $\frac{9}{20}$                                       D)  $\frac{8}{15}$
- 17) A sum of Rs. 25,000 becomes Rs. 27.250 at the end of 3 years when calculated at simple interest. Find the rate of interest.
- A) 2%                                        B) 3%  
C) 4%                                        D) 5%
- 18) The side of a cube is 15 m, find it's surface area?
- A)  $1350 \text{ m}^2$                               B)  $1250 \text{ m}^2$   
C)  $1300 \text{ m}^2$                               D)  $1450 \text{ m}^2$
- 19) Find c, if  $5c - 2 = 33$ .
- A) 7    B) 9  
C) 11    D) 13



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- 29) If the number 517 \* 324 is completely divisible by 3, then the smallest whole number in the place of \* will be:  
A) 0  
B) 1  
C) 2  
D) none of these
- 30) If the price of 6 toys is Rs. 264.37 what will be the approximate price of 5 toys?  
A) Rs. 140  
B) Rs. 100  
C) Rs. 200  
D) Rs. 220
- 31) 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work?  
A) 12  
B) 18  
C) 22  
D) 24

**Directions for Question No. 32 to 37 : Study the following table and answer the question based on it.**

Number of Candidates Appeared and Qualified in a Competitive Examination from Different States Over the Years.

State	Year									
	1997		1998		1999		2000		2001	
	App.	Qual.	App.	Qual.	App.	Qual.	App.	Qual.	App.	Qual.
M	5200	720	8500	980	7400	850	6800	775	9500	1125
N	7500	840	9200	1050	8450	920	9200	980	8800	1020
P	6400	780	8800	1020	7800	890	8750	1010	9750	1250
Q	8100	950	9500	1240	8700	980	9700	1200	8950	995
R	7800	870	7600	940	9800	1350	7600	945	7990	885

- 32) Combining the states P and Q together in 1998, what is the percentage of the candidates qualified to that of the candidate appeared?  
A) 10.87%  
B) 11.49%  
C) 12.35%  
D) 12.54%

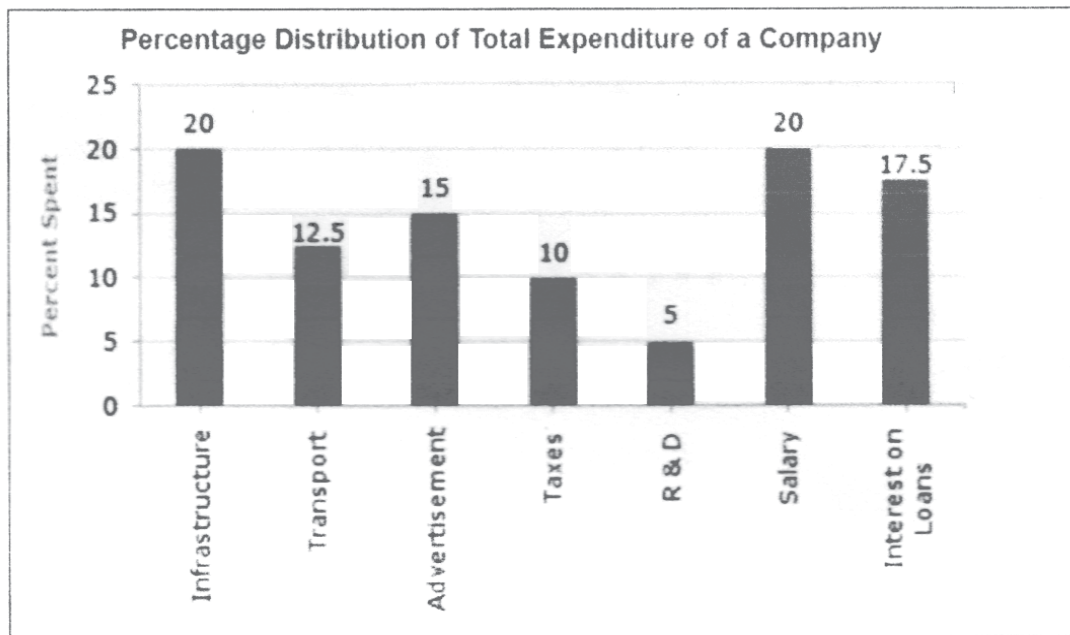
## ENT - 05

- 33) Total number of candidates qualified from all the states together in 1997 is approximately what percentage of the total number of candidates qualified from all the states together in 1998?
- A) 72%    B) 77%  
C) 80%    D) 83%
- 34) What is the average candidates who appeared from State Q during the given years?
- A) 8700    B) 8760  
C) 8990    D) 8920
- 35) In which of the given years the number of candidates appeared from State P has maximum percentage of qualified candidates?
- A) 1997    B) 1998  
C) 1999    D) 2001
- 36) What is the percentage of candidates qualified from State N for all the years together, over the candidates appeared from State N during all the years together?
- A) 12.36%    B) 12.16%  
C) 11.47%    D) 11.15%
- 37) The percentage of total number of qualified candidates to the total number of appeared candidates among all the five states in 1999 is?
- A) 11.49%    B) 11.84%  
C) 12.21%    D) 12.57%
- 38) If NOIDA is written as OPJEB, then what will be the code for DELHI?
- A) EFMAK    B) EFAMK  
C) EFMIJ    D) EFMIK
- 39) If PINK is coded as 1691411, then RED will be coded as -
- A) 1963    B) 1854  
C) 1853    D) 1954
- 40) Statement 1 : A is bigger than B but shorter than C  
Statement 2 : D is smaller than C and bigger than A  
Statement 3 : B is greater than D  
If statement 1 and statement 2 are true, statement 3 will be -
- A) true    B) false  
C) uncertain    D) none of these

- 41) Statement 1 : John runs faster than Geore  
 Statement 2 : Tom runs faster than John  
 Statement 3 : George runs faster than Tom  
 If statement 1 and statement 2 are true, statement 3 will be -  
 A) true  
 B) false  
 C) uncertain  
 D) none of these

**Direction for Question No. 42 to Question No. 46 : The bar graph given below shows the percentage distribution of the total expenditures of a company under various expense heads during 2003.**

The expenditure on the interest on loans is by what percent more than the expenditure on transport?



- 42) The total amount of expenditures of the company is how many times of expenditure on research and development?  
 A) 27  
 B) 20  
 C) 18  
 D) 8
- 43) If the expenditure on advertisement is 2.10 crores then the difference between the expenditure on transport and taxes is?  
 A) Rs. 1.25 crores  
 B) Rs. 95 lakhs  
 C) Rs. 65 lakhs  
 D) Rs. 35 lakhs





53) Soldier : Gun :: Blacksmith : ?

- A) Wood                                      B) Sword  
C) Iron                                        D) Hammer

54) How many 8's are there in the following sequence which are preceded by 5 but not immediately followed by 3?

5 8 3 7 5 8 6 3 8 5 4 5 8 4 7 6 5 5 8 3 5 8 7 5 8 2 8 5

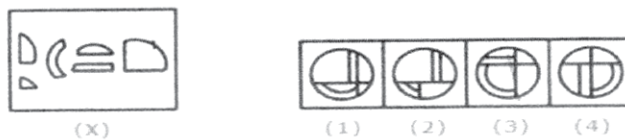
- A) 4    B) 5  
C) 7    D) 3

55) Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figures (X).



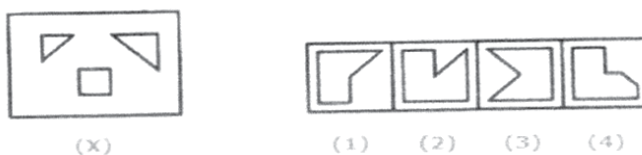
- A) 1    B) 2  
C) 3    D) 4

56) Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figures (X).



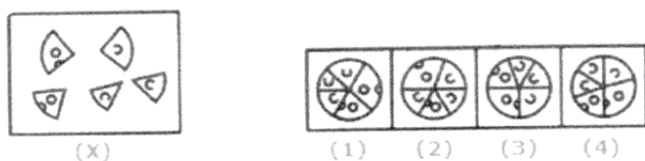
- A) 1    B) 2  
C) 3    D) 4

57) Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figures (X).



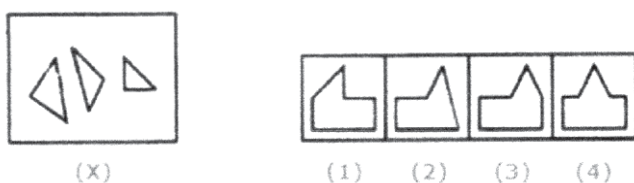
- A) 1    B) 2  
C) 3    D) 4

58) Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figures (X).



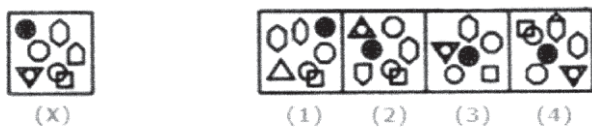
- A) 1
- B) 2
- C) 3
- D) 4

59) Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figures (X).



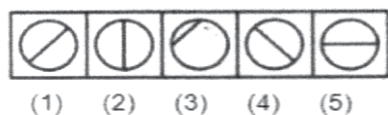
- A) 1
- B) 2
- C) 3
- D) 4

60) Select the alternative in which the specified components of the key figure (X) are found.



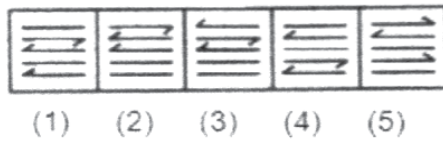
- A) 1
- B) 2
- C) 3
- D) 4

61) Choose the figure which is different from the rest.



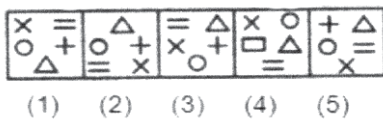
- A) 1
- B) 2
- C) 3
- D) 4

62) Choose the figure which is different from the rest.



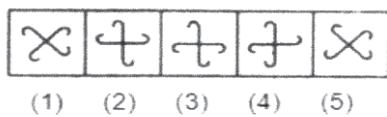
- A) 5                                      B) 3  
 C) 2                                      D) 1

63) Choose the figure which is different from the rest.



- A) 2                                      B) 4  
 C) 3                                      D) 1

64) Choose the figure which is different from the rest.



- A) 5                                      B) 4  
 C) 3                                      D) 2

65) Choose the figure which is different from the rest.



- A) 1                                      B) 2  
 C) 3                                      D) 4

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- 66) You are a department manager and you have recently thought of a new procedure that you believe would improve the work process. Some of the employees in your department agree with the change and some do not. One of your employees openly criticises the idea to your director. What would you do and why? Choose ONE option.
- A) You decide not to respond to the critics in order to avoid unnecessary conflict.
  - B) You reprimand the employee for going over your head to the director and work to promote your idea with even more enthusiasm.
  - C) You meet the employee for a talk and explain that bypassing your authority is unacceptable.
  - D) Employees trust in their manager is important so you decide to implement only some of the changes to keep my employees satisfied.
- 67) At a marketing meeting with your supervisor and the senior marketing manager you find yourself in the midst of a conflict between them. You know that the two do not get along professionally and that they are in constant disagreement. They are now arguing about strategies for a new campaign, and are asking you to pick a side. What would you do and why? Choose ONE option.
- A) You accept the idea of the senior marketing manager. Since she is more senior she has more influence on your status in the company and therefore it is politically wiser to support her.
  - B) You accept the idea of your supervisor. Since he is directly above you, he has more influence on your daily routine in the company and therefore it is politically wiser to support him.
  - C) You weigh up the advantages and disadvantages of each side and decide accordingly without getting involved in their personal conflict.
  - D) You believe that getting involved in this dispute would be detrimental to you as both sides are superior to you therefore, you refuse to pick a side saying that both strategies are equally successful.

## ENT - 05

- 68) You have been working as a salesperson for the past year and have consistently achieved great sales numbers. Due to personal reasons, you have recently been unfocused at work and as a result your work performance has declined. Additionally, due to changes in the market, the sales figures of your team have decreased as well. Your director does not seem to be taking the changes in the market into account and is blaming your poor performance on poor leadership on your part. What would you do and why? Choose the BEST option.
- A) You explain your personal situation to the director and apologize for the decline in the performance of my team. You ask to take a few days off to recuperate.
  - B) You make a decision to put a side your personal situation and consult other sales directors regarding their ways of coping with a volatile market. You devote yourself entirely to your work.
  - C) You update the director on the changes in the market and explain that there is nothing that can be done at the moment to improve sales.
  - D) You scold your team members for their poor performance and set new, more attainable sales targets in line with the changes in the market.
- 69) You've been working in the same place for the past three years and have managed to work your way up. Lately, you have been feeling that you have reached your potential in the company so you start pursuing options for advancing your career in other companies. You are now in the midst of negotiations for a new position. Rumours that you are leaving have spread in your current work place. What would you do and why? Choose ONE option.
- A) Since the rumour is already out, you update all your acquaintances in the organisation that you are in the midst of negotiations for a new position. This may even encourage your directors to promote you within the company.
  - B) Since it is only a rumour, you don't update anyone until you actually hand in your notice. Nothing has been decided yet.
  - C) Since the rumour is already out and you will probably leave, you invest a little less in your work and a bit more in attaining the new position.
  - D) Because the rumour is out you update your manager and only him about your intention of leaving. Since you are still an employee there, you keep working normally.

70) In the following question a statement is given, followed by two conclusions.  
Give answer :

Statements : Quality has a price tag. India is allocating lots of funds to education.

Conclusions :

I. Quality of education in India would improve soon.

II. Funding alone can enhance quality of education.

A) Only conclusion I follows                      B) Only conclusion II follows

C) Either I or II follows                      D) Neither I nor II follows

71) In the following question a statement is given, followed by two conclusions.

Give answer :

Statements : The standard of education in private schools is much better than Municipal and Zilla Parishad-run schools.

Conclusions :

I. The Municipal and Zilla Parishad should make serious efforts to improve standard of their schools.

II. All Municipal and Zilla Parishad schools should be closed immediately.

A) Only conclusion I follows                      B) Only conclusion II follows

C) Either I or II follows                      D) Neither I nor II follows

72) In the following question a statement is given, followed by two conclusions.

Give answer :

Statements : Domestic demand has been increasing faster than the production of indigenous crude oil.

Conclusions :

I. Crude oil must be imported.

II. Domestic demand should be reduced.

A) Only conclusion I follows                      B) Only conclusion II follows

C) Either I or II follows                      D) Neither I nor II follows

73) In the following question a statement is given, followed by two conclusions.  
Give answer:

Statements : Fashion is a form of ugliness so intolerable that we have to alter it every six months.

Conclusions :

- I. Fashion designers do not understand the public mind very well.
- II. The public by and large is highly susceptible to novelty.

- A) Only conclusion I follows                      B) Only conclusion II follows
- C) Either I or II follows                      D) Neither I nor II follows

74) In the following question a statement is given, followed by two conclusions.

Give answer :

Statements : Until our country achieves economic equality, political freedom and democracy would be meaningless.

Conclusions :

- I. Political freedom and democracy go hand in hand.
- II. Economic equality leads to real political freedom and democracy.

- A) Only conclusion I follows                      B) Only conclusion II follows
- C) Either I or II follows                      D) Neither I nor II follows

**Directions for question No. 75 to 79: Read the following passage carefully and answer the questions given beside.**

Cancer drugs need to be powerfully toxic to kill tumor cells. But they also can kill healthy cells, sometimes with brutal side effects. Now, scientists have designed a way to seal cancer drugs inside tiny capsules so the drugs won't harm the healthy cells while traveling through the bloodstream. They hold that medicine securely until they reach a tumor and a remote control "switch" finally triggers the drug's release.

Smaller than bacteria the capsules are called nanoparticles because their size is measured in nanometers. A magnetic field is the invisible force generated by a magnet. Researchers use a magnetic field to work as that remote control switch. Focusing that field on the cancer site ensures that the medicine is released only where it's needed.

The nanoparticles don't seek tumors out. They do, however, tend to collect at tumor sites. Tumors tend to grow so fast that the blood vessels inside them can't keep up. This causes holes to form in the blood vessels. For a nano-package carrying the medicine, those leaky spots become a doorway from the bloodstream into the tumor. The nanoparticles slip in through those leaks, then accumulate in the tumor.

Nanoparticles also can pile up in unwanted places. One such unhelpful collection point is the liver. This organ acts as a filter, snagging poisons out of the blood. It will also net some nanoparticles. Those caught in the liver could damage that organ if they shed too much of an anti-cancer drug.

For many years, researchers have studied how to make nanoparticles that won't drop their drug cargo at such unwanted sites. Sometimes they relied on a chemical trait of the tumor - or the enzymes it produces - to unlock the particles. But not all cancers have the same chemistry. So the medicine might still leak out to poison cells outside the tumor. The new innovation by Rinaldi's team is the creation of a nanoparticle that won't release its medicine anywhere until it gets very warm. And that warming occurs when the particle is exposed to a magnetic field.

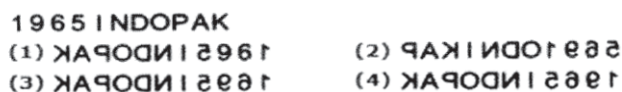
- 75) Which of the following describes the correct meaning of the phrase "pile up" in the context of the passage?
- A) Collision  
B) Accumulate  
C) Large  
D) None of these
- 76) Which of the following is a synonym of "release" in the context of the passage?
- A) Commute  
B) Clemency  
C) Parole  
D) Discharge
- 77) Which of the following is an antonym of "accumulate" in the context of the passage?
- A) Heed  
B) Break  
C) Disperse  
D) Accrue
- 78) Why blood vessels cannot hold tumor?
- A) Tumors needs open space to grow so they move out of the blood vessels  
B) Tumors like to form in liver so they move out of blood vessels  
C) Tumors grow very fast so that they move beyond the blood vessels  
D) None of the above
- 79) What is nanoparticles?
- A) Cancer drug capsules  
B) Cancer bacteria  
C) Tumor particles  
D) All of these



80) Question has a set of four sequentially ordered statements. Each statement can be classified as one of the following : • Facts (F), which deal with the pieces of information that one has heard, seen or read, and which are open to discovery or verification. • Inferences (I), which are conclusions drawn about unknown, on the basis of the known. • Judgements (J), which are opinions that imply approval or disapproval of persons, objects, situations and occurrences in the past, the present or the future. Select the answer option that best describes the set of four statements: (A) Given the poor quality of service in the public sector, the Human Immunodeficiency Virus affected should be switching to private initiatives that supply anti-retroviral drugs (ARVs) at a low cost. (B) Since 2004, the government has been supplying free drugs, and many have benefited as per the reports. (C) Initiatives like AIDS Care Network, would lead to availability of such rare and needed drugs. (D) But how ironic it is the we should face a perennial shortage of drugs when India is one of the world's largest suppliers of generic drugs to the developing world.

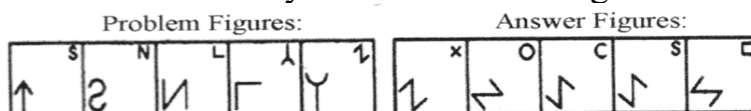
- A) JFIJ
- B) JIJJ
- C) IFIJ
- D) IFFJ

81) Choose the alternative which is closely resembles the mirror image of the given combination.



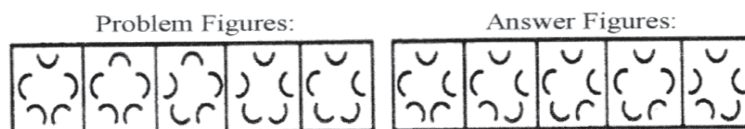
- A) 1
- B) 2
- C) 3
- D) 4

82) Select a figure from amongst the answer figures which will continue the same series as established by the five Problem figures.



- A) 1
- B) 2
- C) 3
- D) 4

83) Select a figure from amongst the answer figures which will continue the same series as established by the five Problem figures.



- A) 1
- B) 2
- C) 3
- D) 4

84) Identify the figure that completes the pattern.



- A) 1  
B) 2  
C) 3  
D) 4

**Directions for question No. 85 to 90 : 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.**

85) DIVA : OPERA

- A) producer : theatre  
B) director : drama  
C) conductor : bus  
D) thespian : play

86) GRAIN : SALT

- A) shard : pottery  
B) shred : wood  
C) blades : grass  
D) chip : glass

87) THRUST : SPEAR

- A) mangle : iron  
B) scabbard : sword  
C) bow : arrow  
D) fence : epee

88) PAIN : SEDATIVE

- A) comfort : stimulant  
B) grief : consolation  
C) trance : narcotic  
D) ache : extraction

89) LIGHT : BLIND

- A) speech : dumb  
B) language : deaf  
C) tongue : sound  
D) voice : vibration

90) WAN : COLOUR

- A) corpulent : weight  
B) insipid : flavor  
C) pallid : complexion  
D) enigmatic : puzzle

91) Choose the word which is different from the rest.

- A) Eagle  
B) Emu  
C) Ostrich  
D) Penguin

92) Choose the word which is different from the rest.

- A) Rigveda  
B) Yajurveda  
C) Atharvaveda  
D) Ayurveda

93) Choose the word which is different from the rest.

- A) Sparrow  
B) Swan  
C) Parrot  
D) Koel

94) Choose the word which is different from the rest.

- A) Spectacles  
B) Goggles  
C) Binoculars  
D) Microphone

95) Choose the word which is different from the rest.

- A) House  
B) Cottage  
C) School  
D) Palace

**Direction for Question No. 96 to Question No. 100 : In the following question, various terms of an alphabet series are given with one or more missing terms as shown by (?). Choose the missing term out of the given alternatives.**

96) IJK, NOP, STU, ?

- A) ZYX  
B) XYZ  
C) WXY  
D) YZA

97) H, I, K, N, R, ?

- A) Z  
B) X  
C) T  
D) W

98) Z, U, Q, ?, L

- A) I  
B) K  
C) M  
D) N

99) CONTRIBUTION, TTRIBUTIO, RIBUTIO, IBUTI, ?

- A) IBU  
B) UT  
C) UTI  
D) BUT

100) AI, BJ, CK, ?

- A) DL  
B) DM  
C) GH  
D) LM



**Rough Work**