Mass. Commu.

| 11P/224/23 | 999 |

Set No. – 1

Question Booklet No. ....

INSTRUCTIONS TO CANDIDATES

(Use only *blue/black ball-point pen* in the space above and on both sides of the Answer Sheet)

1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.

2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope.*

3. A separate Answer Sheet is given. *It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.*

4. Write your *Roll Number and Serial Number of the Answer Sheet by pen* in the space provided above.

5. *On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.*

6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.

7. Any changes in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfairmeans.

8. Each question in this Booklet is followed by four alternative answers. *For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet.*

9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.

10. *Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).*

11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.

12. Deposit *only the OMR Answer Sheet* at the end of the Test.

13. You are not permitted to leave the Examination Hall until the end of the Test.

14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गये हैं।]

Total No. of Printed Pages : 22

No. of Questions/ प्रश्नों की संख्या : 175

Time : 150 Minutes]   *[Full Marks : 450*

Note : (i) The paper is divided into *two* Sections as under :

     (a) *Section-I :* 125 questions.

     (b) *Section-II :* 25 questions in Hindi (*Part-A*) and

         : 25 questions in English (*Part-B*).

     A candidates is required to attempt **150** questions viz., *all* questions of *Section-I* and *only one part* i.e. either *Part-A* or *Part-B* of *Section-II*.

(ii) Attempt as many questions as you can. Each question carries **3** (three) marks. *One mark will be deducted for each incorrect answer.* Zero mark will be awarded for each unattempted question.

(iii) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.

SECTION – I

1. "World Development Report" is an annual publication of :
   (1) United Nations Development Programme
   (2) World Bank
   (3) World Trade Organisation
   (4) International Monetary Fund

2. Centigrade and Fahrenheit scales give the same reading at :
   (1) – 40 degree   (2) – 32 degree   (3) – 273 degree   (4) 100 degree

3. The Bombay Gold Cup is associated with :
   (1) Racing   (2) Football   (3) Hockey   (4) Table tennis

4. The Noble Prize for Literature for the year 2010 was awarded to :
   (1) Mario Vargas Llosa   (2) Herta Müller
   (3) Jean-Marie Gustave Le Clézio   (4) Doris Lessing

5. The Pulitzer Prize for fiction for the year 2010 was awarded to :
   (1) Paul Harding   (2) Michael Moss   (3) Arundhati Roy   (4) Jhumpa Lahiri

6. Which of the following is *not* a fundamental right now in India ?
   (1) Right to Equality   (2) Right to freedom of speech
   (3) Right to constitutional remedies   (4) Right to Property

7. The Right to Education in India came into force on :
   (1) 7th June, 2009   (2) 1st May, 2009   (3) 1st April, 2010   (4) 1st June, 2010

8. About how much of the world's area is tropical rain forest ?
   (1) 2%   (2) 7%   (3) 10%   (4) 15%

9. The period of revolution of a geostationary satellite is :
   (1) 365 days   (2) 30 days   (3) 12 hours   (4) 1 day

10. The shortest day in the southern hemisphere is :
    (1) June 21   (2) December 21   (3) December 26   (4) July 22

11. The Boston Tea Party is associated with :
    (1) French Revolution   (2) Russian revolution
    (3) American Independence   (4) Independence of Egypt

12. Eugenics is :
    (1) an applied science which advocates the use of practices aimed at improving the genetic composition of a population
    (2) the study of people of European origin
    (3) the study of plant genetics
    (4) the study of different races of mankind

13. Indian population constitutes approximately what percentage of the world population :
    (1) 17.31%   (2) 25.6%   (3) 30.6%   (4) 13.6%

14. The Afghanistan Parliament is called :
    (1) Majlis   (2) Shora   (3) Jatiya Sangsad   (4) Shergo

15. Which 20th century economist is the author of Capitalism, Socialism, and Democracy ?
    (1) Joseph Schumpeter   (2) Arthur Cecil Pigou
    (3) John Maynard Keynes   (4) J. K. Galbraith

16. What was the total numbers of medals won by India in the recently concluded Asian Games 2010 ?
    (1) 29   (2) 35   (3) 86   (4) 64

17. What percentage of Earth' s water is fresh water ?
   (1) 3%   (2) 20%   (3) 27%   (4) 40%

18. For the first time in the ten year history of the Miss Earth beauty pageant, the title was won by an Indian. The winner was :
   (1) Ms Nicole Faria   (2) Ms Jennifer Stephanie
   (3) Ms Yiedy Basques   (4) Ms Chitragada Bose

19. The gold medal for Hockey in the Asian games 2010 was won by :
   (1) India   (2) Malaysia   (3) Pakistan   (4) Korea

20. Two prominent Indian journalists got embroiled in the 2 G spectrum controversy through their alleged association with the Nira Radia tapes case. These were :
   (1) Barkha Dutt and Rajdeep Sardesai   (2) Rajdeep Sardesai and Nidhi Rajdan
   (3) Prabhu Chawla and Barkha Dutt   (4) Barkha Dutt and Vir Sanghvi

21. Where do the Rivers Bhagirathi and Alaknanda join to form Ganga ?
   (1) Karan Prayag   (2) Dev Prayag   (3) Rudra Prayag   (4) Gangotri

22. "Potato ores" are :
   (1) nodules on the sea bed containing a variety of minerals
   (2) seed potatoes grown in Himachal Pradesh
   (3) iron ore having a large concentration of sulphur
   (4) ores of nuclear minerals

23. Who won 1st gold medal for India in Asian games 2010 ?
   (1) Bajrang Lal Takhar   (2) Abhinav Bindra
   (3) Gagan Narang   (4) Vijendra Singh

24. BRIC countries account for what percentage of world's population ?
   (1) 65%   (2) 50%   (3) 40%   (4) 33%

25. Notified in 2007, where is the Central Seed Testing and Referral Laboratory (CSTL) located ?
   (1) Lucknow   (2) Dehradun   (3) Varanasi   (4) Allahabad

26. Stiglitz Commission established by the President of the United Nations General Assembly is supposed to deal with :
   (1) the challenges posed by the global climate change and preparation of a road map to counter these
   (2) the working of the global financial system and exploring ways and means to secure a more sustainable global order
   (3) global terrorism and preparation of a global action plan
   (4) expansion of the UN Security Council

27. Recently Deep Water Horizon was in news as one of the worst environmental disasters in United States history. What is Deep Water Horizon ?
    (1) An Oil Exploration site   (2) A Drilling Rig
    (3) A Volcano in Gulf of Mexico   (4) A Refinery located in United States

28. The 16ᵗʰ SAARC summit, held in April 2010 was organised at :
    (1) New Delhi   (2) Male   (3) Thimpu   (4) Kathmandu

29. Which of the following provinces/autonomous regions of China has witnessed ethnic tensions recently ?
    (1) Zhejiang   (2) Guangxi   (3) Ningxia   (4) Xinjiang

30. Indian American Silicon Valley billionaire Vinod Khosla, who has topped the list of 10 greenest billionaires chosen by Forbes recently, is a co-founder of which of the following companies ?
    (1) Motorola, Inc..   (2) Adobe systems
    (3) Sun Micro systems   (4) Microsoft

31. After accepting the Tendulkar committee report which puts the size of below poverty line (BPL) population at 37.2%, what is the approximate increase in number in BPL beneficiaries in India ?
    (1) 1 crore   (2) 2 crore   (3) 3 crore   (4) 4 crore

32. Which of the following groups represents world's largest energy producers as well as largest energy consumers ?
    (1) OPEC   (2) BRIC   (3) SAARC   (4) IBSA

33. What is the number of the countries that are party to the NPT ?
    (1) 171   (2) 176   (3) 189   (4) 168

34. Who among the following has been elected as Costa Rica's first female president ?
    (1) Laura Chinchilla   (2) Dilma Roussef
    (3) Roza Otunbayeva   (4) Simonetta Sommaruga

35. Which of the following is/are treated as artificial currency ?
    (1) ADR   (2) GDR
    (3) SDR   (4) both ADR and GDR

36. The Man Booker Prize for Fiction for the year 2010, went to the book The Finkler Question. The author of the book is :
    (1) Howard Jacobson   (2) Howard Johnson
    (3) Stella Rimington   (4) Kiran Desai

(4)

37. In which of the following islands of India is an active volcano found ?
    (1) Car Nicobar Island   (2) Nancowry island
    (3) Barren Island   (4) Maya Bunder Island

38. The Messenger satellite launched by NASA is to study :
    (1) Murcury   (2) Venus   (3) Saturn   (4) Jupiter

39. Which of the following is an extra constitutional body ?
    (1) Language commission   (2) Planning commission
    (3) Election commission   (4) Finance commission

40. Who won the ICC cricketer of the year award for the year 2009 ?
    (1) M S Dhoni   (2) Gautam Gambhir
    (3) Mitchell Johnson   (4) Tilakratne Dilshan

41. India, at present follows :
    (1) Fixed exchange rate   (2) Floating exchange rate
    (3) Pegged up exchange rate   (4) Pegged down exchange rate

42. Digital photos and scanned images are typically stored on the computer as ....
    graphics with extensions such as ;.png; .bmp;.jpg;.tif or.gif.
    (1) Vector   (2) Bitmap
    (3) Excel   (4) Neither bitmap nor vector

43. When a new program is installed on a computer, to which menu is it typically added ?
    (1) All programs   (2) Select programs
    (3) Start Program   (4) Desktop Program

44. As decided by the RBI, all villages with the population of 2000 and above, will have access to financial services by the end of :
    (1) 2009-10   (2) 2010 -11   (3) 2011-12   (4) 2012-13

45. The number of stars in the European union flag is :
    (1) 12   (2) 10   (3) 24   (4) 17

46. The Greek goddess of victory whose name has been used as that of a famous global brand is :
    (1) Athena   (2) Zara   (3) Nike   (4) Venus

47. Which is the only city in the world to lie in 2 continents ?
    (1) Istanbul   (2) Palestine   (3) Accra   (4) Dar Es Salaam

48. Which nation was the first to give women the right to vote ?
    (1) USA   (2) New Zealand   (3) Sweden   (4) India

49. Which famous physicist wrote a book called 'A Brief History of Time' ?
    (1) Albert Einstien   (2) Andre Geim
    (3) Stephen Hawking   (4) Willard S. Boyle

50. Who did Saina Nehwal beat to win the 2010 Hong Kong Open title ?
    (1) Pui Yin Yip   (2) Wang Shixian
    (3) Lee Chong Wei   (4) Wang Xiaoli

Directions for Q. Nos. 51 to 56 : These questions are based on the information given below :

Four persons *A, B, C, D* are camping on four separate campsites-*E, F, G* and *H*, not necessarily in that order. These campsites are based on four separate lakes-*I, J, K* and *L*. not necessarily in that order, which are situated in four separate states-*M, N, O* and *P*, not necessarily in that order.

B is camping at lake *K*.

H campsite is on lake *J* which is in state *N*.

The person at Lake *I*, a native of state *P* camps only in that state.

D is at *F* campsite.

A is at the campsite in state *O*.

51. Where must B be camping ?
    (1) At E campsite   (2) in state M   (3) on Lake L   (4) At P campsite

52. Lake I is at the site of :
    (1) F campsite   (2) A's camp
    (3) the camp in state O   (4) G campsite

53. On the basis of the information given, it is possible to deduce that :
    I.   A is not at H campsite
    II. C is in state P
    III. D is not at E campsite
    (1) I only   (2) II only   (3) III only   (4) I and III only

54. State O is the site of :
    I.   Lake L
    II. F campsite
    III. Lake J
    (1) I only   (2) II only   (3) III only   (4) I and II only

55. Which of the following is true of Lake L ?

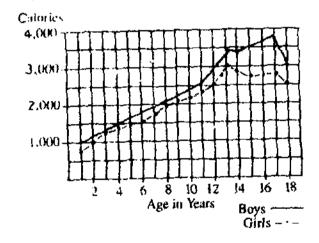(1) C is camping there

(2) D is camping there

(3) A is camping there

(4) It is in state M

56. Which cannot be determined on the basis of the information given ?

(1) In which state Lake K is situated

(2) Who is camping at E campsite

(3) Which campsite is in state P

(4) Who is camping in state N

Directions for Q. Nos. 57 to 61 : These questions are based on the following chart and graphs :

Calories
Composition of average diet

	Grams	Calories
Carbohydrates	500	2050
Protein	100	410
Fat	100	930

Calories required per day by Boys and Girls :

57. How many calories are there in one gram of carbohydrate ?

(1) 0.2   (2) 2   (3) 4.1   (4) 10.25

58. What percent (to the nearest percent) of the total calories in the average diet is derived from proteins ?

(1) 12   (2) 14   (3) 22   (4) 27

59. Approximately, how many more calories per day are required by the boys than girls at the age 17 ?

(1) 800   (2) 1000   (3) 2500   (4) 3500

60. Which of the following can be inferred from the graphs ?
I. Calorie requirement for boys and girls have similar rates of increase until after age 12 to 13.
II. From age 4 to 12 calorie requirements for boys and girls are wholly dissimilar.
III. Calorie requirements reach their peaks at different ages.
(1) I only (2) II only (3) III only (4) I and III

61. How many Grams of carbohydrates (to the nearest gram) are needed to yield of as many calories as 1000 grams of fat ?
(1) 1100 (2) 2050 (3) 2268 (4) 4100

62. There are 27 students in a chemistry class and 22 students in a physics class. Seven of these students take physics and chemistry. What is the ratio of the students taking only physics to those taking only chemistry ?
(1) 3.4 (2) 4.3 (3) 7.6 (4) 22.27

63. A car travelled 75% of the way from town A to town B by travelling for T hours at an average speed of V kmph. The car travels at S kmph for the remaining part of the trip. Which of the following expressions represents the time the car travelled at S kmph ?
(1) VT/S (2) VT/3S (3) 4VT/3S (4) 3S/VT

64. It is given that $2^{32} + 1$ is exactly divisible by a certain number. Which one of the following is also divisible by the same number ?
(1) $2^{96} + 1$ (2) $2^{16} - 1$ (3) $2^{16} + 1$ (4) 7×2^{33}

65. 36 identical chairs must be arranged in rows with the same number of chairs in each row. Each row must contain at least 3 chairs and there must be at least 3 rows. A row is parallel to the front of the room. How many different arrangements are possible ?
(1) 2 (2) 4 (3) 5 (4) 6

66. Which of the following solids has the largest volume ?
I. A cylinder of radius 5 mm and height 11 mm
II. A cube with side 9 mm
III. A sphere of radius 6 mm
(1) I (2) II (3) III (4) I and III

67. A pension fund has a total of Rs 10 Lakhs invested in the stock of the ABC Company and the bonds of DEF corporation. The ABC stock pays 12 percent each year and the DEF bonds pay ten percent each year. The pension fund received a total of Rs 1,15,000 from its stocks and bonds last year. How much money was invested in the ABC stock ?
(1) 7,50,000 (2) 6,00,000 (3) 5,00,000 (4) 2,50,000

68. It takes Anand 20 minutes to inspect a car. Mohan needs only 18 minutes to inspect a car. If they both start inspecting cars at 8 am, what is the first time they will finish inspecting a car at the same time ?

    (1) 9.30 AM   (2) 9.42 AM   (3) 10.00 AM   (4) 11.00 AM

69. If the side of a square increases by 40 %, then the area of the square increases by :

    (1) 16 %   (2) 40 %   (3) 96 %   (4) 116 %

70. There are 50 employees in Company A. Of these, 22 have taken an accounting course, 15 have taken a course in Finance, and 14 to have taken a marketing course. Nine of the employees have taken exactly two of the courses and one employee has taken the three of the courses. How many of the 50 employees have taken none of the courses ?

    (1) 9   (2) 10   (3) 11   (4) 26

Directions for Q. Nos. 71 to 75 : Each of the following questions has a problem followed by two statements which are labelled A and B. Use the data given in the statements together with other available information in the problem to decide whether the statements are sufficient to answer the question.

Then select the appropriate choice from among the four alternatives given below each question.

71. A piece of wood 5 feet long is cut into three smaller pieces. How long is the longest of the three pieces ?

    A. One piece is 2 feet 7 inches long.

    B. One piece 7 inches longer than the other piece and the remaining piece is 5 inches long.

    (1) The answer can be found from statement A alone but not from B alone

    (2) The answer can be found from statement B alone but not from A alone

    (3) The answer can be found from both A and B together but not from A alone or B alone

    (4) The answer can be found from either A alone or B alone

72. What is the value of y ?

    A. $x + 2y = 6$

    B. $y^2 - 2y + 1 = 0$

    (1) The answer can be found from statement A alone but not from B alone

    (2) The answer can be found from statement B alone but not from A alone

    (3) The answer can be found from both A and B together but not from A alone or B alone

    (4) The answer can be found from either A alone or B alone

(9)   P.T.O.

73. Two pipes P and Q are used to fill up a reservoir. Pipe P can fill the reservoir in 30 minutes by itself. How long will it take Pipe P and Pipe Q together to fill up the reservoir ?

   A. By itself, Pipe Q can fill the reservoir in 20 Minutes.
   B. Pipe Q has a larger cross sectional area than Pipe P.
   (1) The answer can be found from statement A alone but not from B alone
   (2) The answer can be found from statement B alone but not from A alone
   (3) The answer can be found from both A and B together but not from A alone or B alone
   (4) The answer can be found from either A alone or B alone

74. k is an integer. Is k divisible by 12 ?
   A. k is divisible by 4.
   B. k is divisible by 3.
   (1) The answer can be found from statement A alone but not from B alone
   (2) The answer can be found from statement B alone but not from A alone
   (3) The answer can be found from both A and B together but not from A alone or B alone
   (4) The answer can be found from either A alone or B alone

75. What was the price of a dozen eggs during the 15th week of year 2009 ?
   A. During the first week of the year 2009 the price of a dozen eggs was Rs 33.50.
   B. The price of a dozen eggs rose 10 paisa Per week, every week during the first four months of the year 2009.
   (1) The answer can be found from statement A alone but not from B alone
   (2) The answer can be found from statement B alone but not from A alone
   (3) The answer can be found from both A and B together but not from A alone or B alone
   (4) The answer can be found from either A alone or B alone

Directions for Q. Nos. 76 to 82 : These questions are based on the following information :

At a symposium on the possible dangers of the industrial chemical PBX, three pro industry spokespersons are to be seated on the left of the moderator and the three critics of PBX to the right of the moderator. The speakers are Drs. A,B,C,D,E and F.

   I. The person delivering a lecture on "Epidemiological Aspects of PBX" is seated immediately between Dr. A and Dr. D.

   II. The persons delivering "Public Health and PBX" and Radiological Aspects of PBX" are close friends and insist on sitting together.

   III. Dr. F is placed two seats to the left of the moderator.

IV. As heavy smoking is repugnant to the moderator, she insists that the person delivering "PBX: Benign or Malignant", a heavy smoker, the seated at one end of the table.

V. Dr C , delivering "The Impact of PBX on Environment" is seated to the left of Dr. F.

VI. Dr A a critic of PBX is seated to the left of Dr. E

76. The pro industry spokespersons are :
   (1) Dr A, Dr F and Dr D   (2) Dr F, Dr B and Dr E
   (3) Dr A, Dr B and Dr D   (4) Dr C, Dr F and Dr B

77. The person seated immediately to the left of the moderator is :
   (1) Dr. A   (2) Dr. B   (3) Dr. C   (4) Dr. E

78. Assuming it is one of the papers delivered at the symposium, "PBX and the Digestive Tract" must be delivered by :
   (1) Dr. A   (2) Dr. B   (3) Dr. C   (4) Dr. E

79. Given the seating rules as above, which of the numbered statements are logically sufficient to establish the position of Dr. E and the title of the papers she delivers :
   (1) I and III   (2) I and VI   (3) I, III and VI   (4) I, IV, V and VI

80. The symposium is expanded to include a seventh speaker. If he is seated exactly midway between Dr. C and the moderator, he will sit :
   (1) To the left of the author of Radiological Aspects of PBX
   (2) One seat to the right of the moderator
   (3) Two seats to the right of Dr. D
   (4) Three seats to the left of Dr. A

81. The symposium is expanded to include two more speakers. The seventh speaker is seated at one end of the table. If the eighth speaker is seated exactly midway between Dr. D and the author of "Public Health and PBX", which of the following must be true ?
   (1) The eighth speaker must be seated at one end of table
   (2) Dr. B must be the author of "Radiological Aspects of PBX"
   (3) The eighth speaker must be seated on the same side of the moderator as Dr. F
   (4) The eighth speaker must be seated immediately to the left of Dr. E

82. Which of the following cannot be determined on the basis of the information given ?
   I. The author of "Public Health and PBX"
   II. The title of the paper delivered by Dr. D
   III. The identity of the two friends who insist on being together
   (1) I only   (2) II only   (3) III only   (4) I and II only

Directions for Q. Nos. 83 to 90 :

These questions consist of two statements labelled Assertion(A) and Reason(R). In each case, examine these two statements carefully and select the answers to the questions based on the following code :

83. *Assertion (A)* : In India, the net sown area increased by about 19% from the year 1950-51 to 1999-2000.

    Reason (R) : During the same period, there had been a concurrent decrease in the area under forest.

    (1) Both A and R are individually true and R is the correct explanation of A

    (2) Both A and R are individually true and R is not the correct explanation of A

    (3) A is true but R is false

    (4) A is false but R is true

84. *Assertion (A)* : The Himalayan Rivers are older than the mountain ranges they cross.

    Reason (R) : The Himalayan Rivers cut their channels deeply and incisively.

    (1) Both A and R are individually true and R is the correct explanation of A

    (2) Both A and R are individually true and R is not the correct explanation of A

    (3) A is true but R is false

    (4) A is false but R is true

85. *Assertion (A)* : India's climate mainly comprises of the tropics zone in the southern half and the temperate zone in the northern half.

    Reason (R) : The Tropic of Cancer passes through the central part of India.

    (1) Both A and R are individually true and R is the correct explanation of A

    (2) Both A and R are individually true and R is not the correct explanation of A

    (3) A is true but R is false

    (4) A is false but R is true

86. *Assertion (A)* : Japan is a leading industrial nation in the world in Iron & Steel production.

    Reason (R) : Japan has a very rich iron ore reserves.

    (1) Both A and R are individually true and R is the correct explanation of A

    (2) Both A and R are individually true and R is not the correct explanation of A

    (3) A is true but R is false

    (4) A is false but R is true

87. *Assertion (A)* : Steam is more harmful for human body than boiling water in case of burn.

   Reason (R) : Boiling water contains the more heat than steam.

   (1) Both A and R are individually true and R is the correct explanation of A

   (2) Both A and R are individually true and R is not the correct explanation of A

   (3) A is true but R is false

   (4) A is false but R is true

88. *Assertion (A)* : Venus is the brightest object in the sky after the sun.

   Reason (R) : Venus is the second planet from the sun in our solar system.

   (1) Both A and R are individually true and R is the correct explanation of A

   (2) Both A and R are individually true and R is not the correct explanation of A

   (3) A is true but R is false

   (4) A is false but R is true

89. *Assertion (A)* : The International Date Line is not straight.

   Reason (R) : It is an imaginary line made to go zig-zag in some regions, to avoid land and to leave island groups wholly on the same side of this line.

   (1) Both A and R are individually true and R is the correct explanation of A

   (2) Both A and R are individually true and R is not the correct explanation of A

   (3) A is true but R is false

   (4) A is false but R is true

90. *Assertion (A)* : Despite low evaporation and stable stratification of the atmosphere, salinity is higher in the polar regions.

   Reason (R) : Seawater freezes leaving the remaining water more saline than before the.

   (1) Both A and R are individually true and R is the correct explanation of A

   (2) Both A and R are individually true and R is not the correct explanation of A

   (3) A is true but R is false

   (4) A is false but R is true

Directions for Q. Nos. 91 to 95 :

Find the odd one out in each of the following questions :

91. (1) Semicolon   (2) Semicircle   (3) Seminar   (4) Semifinal

92. (1) Diplomacy   (2) Autocracy   (3) Democracy   (4) Bureaucracy

93. (1) 1200   (2) 1300   (3) 1400   (4) 1500

94. (1) Aditya Birla- Kumar Manggalam Birla

(2) Charan Singh - Ajit Singh

(3) J.R.D. Tata - Ratan Tata

(4) Sunil Dutt - Sanjay Dutt

95. (1) 343   (2) 729   (3) 125   (4) 27

Directions for Q. Nos. **96** *to* **100 :** In each of the following questions a related pair of words in capital letters is followed by four pairs of words phrases. From among these four pairs, select the pair that best expresses a relationship similar to that expressed in the pair in capital letters :

96. MASON : WALL : :

(1) fishermen : fish   (2) artist : easel

(3) author : book   (4) sculptor : mallet

97. PERFORATE : HOLES : :

(1) speckle : spots   (2) evaporate : perfume

(3) decorate : rooms   (4) filter : water

98. INCUBATOR : INFANT : :

(1) henhouse : chicken   (2) archives : documents

(3) beehive : bee   (4) greenhouse : plants

99. FOX : CUNNING : :

(1) dog : playful   (2) beaver : industrious

(3) vixen : cute   (4) colt : sturdy

100. SURPRISE : EXCLAMATION : :

(1) insolence : bow   (2) happiness : grimace

(3) dismay : groan   (4) deference : nod

Directions for Q. Nos. **101** *to* **105 :** Read the following passage and answer the questions based on it.

Newspapers sell because of news and editorial coverage but it gets more revenue from advertisements. News costs money, while advertisements fetch money. The economics of modern newspapers is such that it cannot run by just selling news; it has to depend on advertisements. The economics of newspaper publishing requires both subscribers who can afford to buy newspapers and businessmen who can afford to advertise in it. The growth of the press depends on both. Therefore, in newspaper management neither aspect can be neglected.

(14)

Co-ordination among the various departments - editorial, circulation, advertising and production - is very essential for effective and better management. The head of various departments must be part of the management of a newspaper. They must be aware of the goals set, policies and future plans of the management. They cannot afford to remain cut off from the mainstream of management function. In addition, each department should keep the other department managers informed of those of its activities that will be useful to them. This is a vital aspect of newspaper management.

101. The growth of a newspaper depends on :
(1) the editorial and news coverage
(2) large scale subscribers
(3) advertisers
(4) subscribers and advertisers

102. The main idea contained in the first paragraph of the passage is about :
(1) the growth of the press
(2) news and editorial coverage
(3) the economics of newspaper publishing
(4) the importance of advertisements

103. The key to satisfactory management of a newspaper is :
(1) Isolation   (2) Association   (3) Participation   (4) Co-ordination

104. The word 'goal' in the passage means :
(1) aim   (2) conclusion   (3) result   (4) benefit

105. The word 'vital' as used in the passage means :
(1) primary   (2) important   (3) healthy   (4) lively

Directions for Q. Nos. **106** *to* **110** : Select the word *nearest in meaning* to the given word :

106. Instigate :
(1) incite   (2) enquire   (3) inform   (4) abuse

107. Furnish :
(1) buy   (2) supply   (3) spoil   (4) polish

108. Concise :
(1) brief   (2) exact   (3) nice   (4) light

109. Adversity :
(1) crisis   (2) failure   (3) misfortune   (4) helplessness

110. Authentic :
(1) apparent   (2) intricate   (3) stable   (4) factual

Directions for Q. Nos. **111** *to* **115** : Select the word *opposite in the meaning* to the given word :

111. Minor :
(1) big   (2) tall   (3) heavy   (4) major

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112. Comic :
(1) emotional (2) light-hearted (3) tragic (4) painful

113. Conceal :
(1) discover (2) reveal (3) open (4) unfold

114. Prohibit :
(1) permit (2) accept (3) agree (4) grant

115. Innocent :
(1) sinful (2) deadly (3) corrupt (4) guilty

Directions for Q. Nos. **116** *to* **120** : From the given options choose the one which has *the correct spelling* :

116. (1) committee (2) commitee (3) comittee (4) commitie

117. (1) nesessary (2) necessery (3) necessary (4) nescacery

118. (1) grammer (2) grammar (3) grammur (4) gramar

119. (1) mischeivous (2) mischievous (3) mischivous (4) mischivus

120. (1) temprary (2) tempry (3) temporary (4) tempory

Directions for Q. Nos. **121** *to* **125** : From the given options choose the one which can be *substituted* for the given group of words :

121. A speech delivered without preparation :
(1) maiden (2) extempore (3) debut (4) creative

122. A person who readily believes others :
(1) credible (2) creditable (3) in credible (4) credulous

123. One who eats everything :
(1) omnipotent (2) insolvent (3) omnivorous (4) omniscient

124. Official incharge of a museum :
(1) curator (2) supervisor (3) warden (4) museologist

125. A word no longer in use :
(1) obsolete (2) ancient (3) primitive (4) useless

SECTION – II
HINDI
(Part – A)

126. पश्चिमी हिन्दी के अंतर्गत कौन-सी बोली *नहीं* आती ?
(1) ब्रज (2) खड़ी बोली (3) बाँगरू (4) बघेली

127. हिन्दी दिवस कब मनाया जाता है ?
     (1) 13 सितम्बर (2) 16 नवम्बर (3) 14 सितम्बर (4) 8 अक्टूबर

128. आर्य परिवार की आधुनिक भारतीय भाषाएँ मूलतः किस भाषा से निकली हैं ?
     (1) पालि (2) प्राकृत (3) संस्कृत (4) अपभ्रंश

129. 'अनाधिकार' का शुद्ध शब्द चयनित कीजिए :
     (1) अनधिकार (2) आनाधिकार (3) अनधिकारी (4) अन्अधिकारी

130. 'उत्तेजन' का विलोम चयनित कीजिए :
     (1) अनुत्तेजन (2) अउत्तेजन (3) प्रशमन (4) शान्ति

131. 'ऐश्वर्य' का विलोम चयनित कीजिए :
     (1) अनुऐश्वर्य (2) अनैश्वर्य (3) अन्ऐश्वर्य (4) गरीबी

132. 'कन्या' का लघुतावाचक शब्द चयनित कीजिए :
     (1) कन्यका (2) बालिका (3) बच्ची (4) शिशु बच्ची

133. 'पहला' शब्द का तत्सम क्या है ?
     (1) प्रथम (2) प्रथिल (3) सर्वप्रथम (4) पहलेपहल

134. 'पन्ना' का तत्सम शब्द चुनिए :
     (1) पृष्ठ (2) पेज (3) पर्ण (4) पन्निका

135. 'अंस' का सही शब्दार्थ क्या है ?
     (1) हिस्सा (2) अंश (3) कंधा (4) घोड़ा

136. 'दुष्ट उद्देश्य हेतु की जाने वाली साजिश' वाक्यांश के लिए एक शब्द बताइए :
     (1) मंत्रणा (2) दुरभिसंधि (3) विसंधि (4) दुष्ट परामर्श

137. 'जो प्रमाण से सिद्ध हो सके' वाक्यांश के लिए एक सही शब्द चयनित कीजिए :
     (1) प्रमाणित (2) प्रमाणनीय (3) प्रमेय (4) सुप्रमाणित

138. 'उन्नीस बिस्वा' मुहावरे का सही अर्थ क्या है ?
     (1) अधिकांश
     (3) एक बीघा खेत न होना
     (2) बीस बिस्वा लगभग
     (4) कम

139. 'कढ़ी का सा उबाल' मुहावरे का सही अर्थ चयनित कीजिए :
     (1) गंभीरता लाना
     (3) मामूली जोश
     (2) काम को बहुत धीरे करना
     (4) धीरे-धीरे क्रोध करना

140. 'अकर्तित' में कौन-सा उपसर्ग है ?
     (1) अक् (2) अ (3) अक (4) अन्

141. 'वैदिक' में कौन-सा प्रत्यय है ?
     (1) क (2) ईक् (3) इक (4) दिक्

142. 'अ + ऊ = ओ' किस सन्धि का नियम है ?
     (1) दीर्घ (2) यण् (3) गुण (4) व्यंजन

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143. 'कंबुग्रीव' में कौन-सा समास है ?

    (1) बहुब्रीहि   (2) कर्मधारय   (3) द्विगु   (4) तत्पुरुष

144. 'एक राम घनश्याम हित चातक तुलसीदास' काव्यात्मक पंक्ति में कौन-सा अलंकार है ?

    (1) रूपक   (2) उदाहरण   (3) यमक   (4) उपमा

145. तुम वहन कर सको जन मन में मेरे विचार

वाणी मेरी चाहिए तुझे क्या अलंकार। – पंक्तियों के रचनाकार कौन हैं ?

    (1) प्रसाद   (2) महादेवी   (3) निराला   (4) पंत

146. हिन्दी की प्रसिद्ध पत्रिका 'आलोचना' के वर्तमान सम्पादक हैं :

    (1) नामवर सिंह   (2) परमानंद श्रीवास्तव

    (3) अरुणकमल   (4) सुधीश पचौरी

147. 'प्रताप' साप्ताहिक पत्र का सम्पादक कौन था ?

    (1) प्रताप नारायण मिश्र   (2) गणेशशंकर विद्यार्थी

    (3) मदन मोहन मालवीय   (4) सुदर्शन

148. आजकल 'चाक्' संज्ञा से एक साहित्यिक पत्रिका किस प्रकाशन से प्रकाशित हो रही है ?

    (1) राजकमल   (2) राधाकृष्ण   (3) लोकभारती   (4) वाणी

149. 'बनारस अखबार' के सम्पादक का नाम क्या था ?

    (1) भारतेन्दु   (2) शिवप्रसाद सितारे हिन्द

    (3) लक्ष्मण सिंह   (4) दयानंद सरस्वती

150. गांधी जी ने निम्नलिखित में से किस पत्र का सम्पादन किया था ?

    (1) ब्राह्मण   (2) भारत   (3) इंडिया   (4) हरिजन

ENGLISH
(Part – B)

Directions for Q. Nos. **151** *to* **155** : Choose the best option to fill in the blanks :

151. He spoke .... about the project.

    (1) Confidencely   (2) Confident   (3) Confidently   (4) with confident

152. Unbelief is reagarded as a .... by religious authorities.

    (1) crime   (2) vice   (3) sin   (4) mistake

153. We were greatly terrified to hear the .... of a lion.

    (1) shriek   (2) grunt   (3) bray   (4) roar

154. Wood does not .... in water, it ....

    (1) sink, swims   (2) drown, floats   (3) sink, floats   (4) drown, swims

155. We need a .... leader for our country.

    (1) dynamic   (2) dynamatic   (3) dynamite   (4) dangerous

Directions for Q. Nos. **156** *to* **160** : Choose the correct option to fill in the blanks in the given sentences :

156. He was so rude that they were compelled ....

    (1) for asking him to leave   (2) to ask him for leaving

    (3) to ask him to leave   (4) ask him to leave

157. You will succeed if you ....

    (1) work hard   (2) are working hard

    (3) will work hard   (4) work hardly

158. He opened the letter without .... to read the address on the envelope.

    (1) thinking   (2) caring   (3) bothering   (4) think

159. I .... since 8 O'clock in the morning.

    (1) was working   (2) will be working

    (3) am working   (4) have been working

160. The teacher asked the student .... late.

    (1) that why was he   (2) why was he

    (3) that why he was   (4) why he was

Directions for Q. Nos. **161** *to* **165** : From the given options choose the most appropriate *preposition* to fill in the blanks :

161. The two lines cut .... each other.

    (1) at   (2) to   (3) across   (4) against

162. Look at the cracks .... the help of a magnifying glass.

    (1) by   (2) with   (3) from   (4) about

163. People are not allowed to go .... this point.

    (1) for   (2) within   (3) beyond   (4) into

164. Everyone congratulated him .... his success.

    (1) at   (2) for   (3) on   (4) in

165. He has been sleeping .... the last four hours.

    (1) for   (2) from   (3) since   (4) about

Directions for Q. Nos. 166 to 170 : From the given options choose the *correct* meaning of the underlined idioms/phrases :

166. A close shave :
(1) a lucky escape
(2) a clean shave
(3) a well guarded secret
(4) a narrow escape

167. Eat like a horse :
(1) to be a vegetarian
(2) eat too little
(3) eat too much
(4) behave like a horse

168. Spill the beans :
(1) reveal secret information
(2) misbehave
(3) keep secrets
(4) talk loudly

169. French leave :
(1) long absence
(2) casual leave
(3) permission for foreign travel
(4) absence without permission

170. Hit below the belt :
(1) work confidently
(2) harm unfairly
(3) strike at the exact point
(4) fight seriously

Directions for Q. Nos. 171 to 175 : The underlined part of the given sentence contains an error. Choose the option which will *improve the sentence.*

171. I asked my friend do you know the answer :
(1) did you know
(2) did he knew
(3) whether you know
(4) whether he knew

172. The child has been ill from three months :
(1) since three months
(2) for three months
(3) with three months
(4) by three months

173. Little we knew about the place :
(1) we knew
(2) we do know
(3) do we know
(4) we did know

174. You must try making him to understand :
(1) make him understand
(2) to make him to understand
(3) to make him understand
(4) make him to understand

175. He offered me tea but I denied it :
(1) refused
(2) refuted
(3) neglected
(4) declined

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल *नीली/काली बाल-प्वाइंट पेन* से ही लिखें)

1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख ले कि प्रश्नपत्र में सभी पृष्ठ मौजूद है और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।

2. परीक्षा भवन में *लिफाफा रहित प्रवेश-पत्र के अतिरिक्त,* लिखा या सादा कोई भी खुला कागज साथ में न लायें।

3. उत्तर-पत्र अलग से दिया गया है। *इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।*

4. अपना *अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से* निर्धारित स्थान पर लिखें।

5. *उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।*

6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक संख्या और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।

7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।

8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। *प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।*

9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।

10. *ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है।* यदि आप किसी प्रश्न का *उत्तर नहीं देना चाहते हैं,* तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।

11. रफ कार्य के लिये इस पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।

12. परीक्षा के उपरान्त *केवल ओ० एम० आर० उत्तर-पत्र* ही परीक्षा भवन में जमा करें।

13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।

14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की भागी होगा/होगी।