SAT-3 **NTSE(I)/17**

राष्ट्रीय प्रतिभा खोज परीक्षा (प्रथम स्तर) 2017
NATIONAL TALENT SEARCH EXAMINATION (FIRST LEVEL) 2017

212 – C

Roll No. रोल नम्बर: 12

Booklet Number पुस्तिका संख्या: 69241

SCHOLASTIC APTITUDE TEST
(For Students of Class X)

Time : 90 Minutes Max. Marks : 100

(For Blind Candidates Time : 2 Hours)

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you open the question booklet.

1. Answers are to be given on a **separate answer sheet (OMR sheet).**
2. Write your **Roll Number** as allotted to you in the admission card very clearly on **the test-booklet** and darken the appropriate circles on the **answer sheet** as per instructions given.
3. There are 100 questions in this test. All are compulsory. The question numbers 1 to 40 belong to Sciences. 41 to 60 to Mathematics and 61 to 100 are on Social Science subjects.
4. Please follow the instructions given on the answer sheet for marking the answers.
5. If you do not know the answer to any question, do not waste time on it and pass on to the next one. Time permitting, you can come back to the questions, which you have left in the first instance and attempt them.
6. Since the time allotted for this question paper is very limited, you should make the best use of it by not spending too much time on any one question.
7. **Rough work** can be done **on the given Blank Pages at the back of the booklet** but not on the answer sheet/loose paper.
8. Every correct answer will be awarded one mark. There will be no negative marking.
9. **Please return the Answer sheet (OMR Sheet) only to the invigilator after the test.**
10. Hindi version of the question paper will be considered as final in case of any dispute arising out of variation in translated version.

PLEASE TURN OVER THE PAGE AND START YOUR WORK.

शैक्षिक योग्यता परीक्षा
(कक्षा X के विद्यार्थियों के लिए)

समय : 90 मिनट पूर्णांक : 100

(दृष्टिहीन अभ्यर्थियों के लिए समय : 2 घंटे)

परीक्षार्थियों के लिए निर्देश

प्रश्न पुस्तिका खोलने से पहले निम्न निर्देशों को ध्यान से पढ़िए।

1. उत्तर एक **अलग उत्तर पत्रक (ओ० एम० आर० शीट)** में देने हैं।
2. कृपया अपना **रोल नम्बर** जैसा कि आपके प्रवेश पत्र पर दिया गया है, निर्देशानुसार **टेस्ट पुस्तिका** पर बहुत स्पष्ट लिखिये और **उत्तर-पत्रक** पर दिये गये गोलों को काला करें।
3. इस परीक्षा में 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रश्न संख्या 1 से 40 विज्ञान, 41 से 60 गणित और 61 से 100 सामाजिक विज्ञान विषयों पर आधारित हैं।
4. कृपया उत्तर चिह्नित करने के लिए उत्तर-पत्रक पर दिये गये निर्देशों को ध्यान से समझ कर उनकी अनुपालना कीजिए।
5. यदि आप किसी प्रश्न का उत्तर नहीं जानते हैं तो उस पर बहुत समय न गंवाइये और अगले प्रश्न पर बढ़ जाइये। यदि बाद में समय मिले तो जिन प्रश्नों को आपने पहले छोड़ दिया था, उन पर वापस आकर उनके उत्तर दीजिए।
6. क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसलिए इसका अधिकतम उपयोग कीजिये और किसी प्रश्न पर बहुत समय न लगाइये।
7. **रफ कार्य** पुस्तिका के अंत में दिए गए रिक्त पृष्ठों पर किया जा सकता है किन्तु **उत्तर-पत्रक/अलग कागज** पर नहीं।
8. प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा। इसमें ऋणात्मक अंकन नहीं होगा।
9. **कृपया परीक्षा के बाद केवल उत्तर-पत्रक (ओ० एम० आर० शीट) ही निरीक्षक को लौटाइए।**
10. अनुवादित विवरण में अन्तर से उठे किसी भी विवाद की स्थिति में प्रश्न-पत्र के हिन्दी विवरण को निर्णायक माना जाएगा।

कृपया पृष्ठ पलटिये और अपना कार्य आरम्भ कीजिए।

SCHOLASTIC APTITUDE TEST (SAT) PAPER

1. The brakes applied to a car produce an acceleration of 8 m/s^2 in the opposite direction to the motion. If the car takes 3 seconds to stop after the application of brakes, the distance it travels during the time will be -

(1) 30 m (2) 36 m (3) 25 m (4) 40 m

2. A bullet of mass 10 gm moving with 100 m/s is embedded in a block of 1 kg which is initially in rest. The final velocity of the system will be

(1) 1 m/s (2) 1.5 m/s (3) 0.5 m/s (4) 2 m/s

3. The magnitude of buoyant force depends on which one of the following properties of fluid ?

(1) Mass of object (2) Size of object

(3) Density of liquid (4) Size of container.

4. The value of 200 units of energy into joules will be

(1) 7.20×10^8 J (2) 7.20×10^7 J (3) 72×10^8 J (4) 7.2×10^6J.

5. In which of the following media, the speed of sound will be maximum ?

(1) Glass (2) Ethanol (3) Air (4) Vacuum.

6. The weight of a body of mass 15 kg on moon is

(1) 24.5 N (2) 2.45 N (3) 245 N (4) 0.245 N.

7. The work required to increases the velocity of a particle from 18 km/h to 72 km/h, if mass of particle is 2 kg, is

(1) 275 J (2) 225 J (3) 15 J (4) 375 J

8. The image formed by a concave mirror is observed to be real, inverted and larger than the object. Where should be the position of the object ?

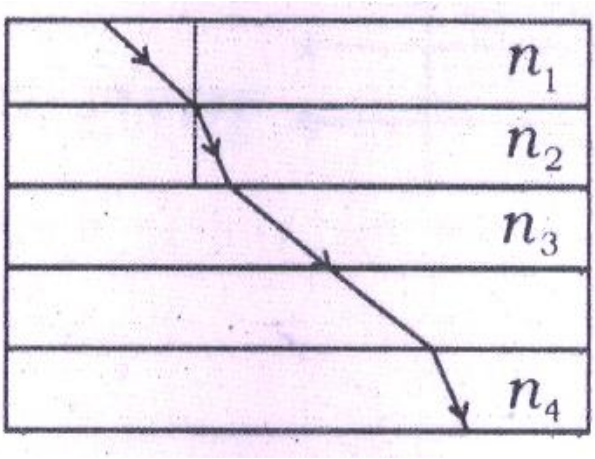
(1) At the centre of curvature

(2) Between the principal focus and centre of curvature

(3) Beyond the centre of curvature

(4) Between the pole of the mirror and its principal focus

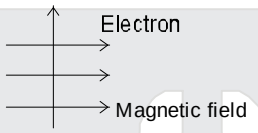
9. The path of ray of light in different media of refractive indices n_1, n_2, n_3 and n_4 is shown in figure. The velocity of light will be maximum in the medium whose refractive index is



(1) n_1 (2) n_2 (3) n_3 (4) n_4

10. Which one of the following phenomena is an example of scattering of light ?
(1) Bending of rod at interface of air and water
(2) Twinkling of stars
(3) Tyndall effect
(4) Mirage in desert during summer.

11. An electron enters in a magnetic field at right angles to it, as shown in figure. The direction of force acting on the electron will be



(1) to the right (2) to the left (3) out of paper (4) into the paper.

12. Three 6 Ω resistors are connected in parallel and the combination is connected to a 15 V battery. The current through any one of the resistors will be
(1) 2.5A (2) 2.0A (3) 5A (4) 10A.

13. The minimum order of temperature required for nuclear fusion is
(1) 10^{15} K (2) 10^{6} K (3) 10^{3} K (4) 10^{2} K

14. What will be the mass/mass percentage of a solution containing 30 gm of common salt in 220 gm of water ?
(1) 3% (2) 1.2% (3) 12% (4) 22%

15. Cheese is an example of which type of colloid ?
(1) Gel (2) Foam (3) Sol (4) Solid sol

16. Which process is used to separate a mixture of two miscible liquids A and B having boiling points 56º C and 65º C respectively ?
(1) Destillation (2) Fractional distillation
(3) Sublimation (4) Steam distillation.

17. Number of valence electrons in Magnesium is
(1) 12 (2) 10 (3) 8 (4) 2

18. Total number of atoms in 4 gm of oxygen molecule is
(1) 6.022×10^{23} (2) 7.52×10^{22} (3) 1.5055×10^{23} (4) 0.0752×10^{23}

19. Number of which among the following is same in Al^{+3} and F^{-} ?
(1) Proton (2) Neutron (3) Atomic mass (4) Electron

20. Which of the following is pH of basic solution ?
(1) 7 (2) 4.2 (3) 6.9 (4) 10.2

21. Which metal does not react with oxygen at high temperature ?
(1) Mg (2) Al (3) Ag (4) Zn

22. Which reagent is able to dissolve gold and platinum ?
(1) Nitric acid (2) Aqua–regia (3) Hydrochloric acid (4) Sulphuric acid.

23. Which metal is most reactive ?
(1) Na (2) Ca (3) K (4) Zn

24. Identify X in the following reaction –

$CH_3—CH_2—OH \xrightarrow[H_2SO_4]{Hot,conc.} (X) + H_2O$

(1) Ethane (2) Methane (3) Ethene (4) Ethanol

25. Electronic configuration of an atom is 2,8,1. Which of the following elements is similar with it in chemical reactivity ?
(1) K (2) Cl (3) N (4) Ar.

26. Ethanol is made unfit for drinking by adding
(1) Propanol (2) Methanal (3) Methanol (4) Ethanal

27. In a cell which cell organelle other than nucleus contains DNA ?
(1) Lysosome (2) Golgi bodies (3) Endoplasmic reticulum (4) Mitochondria

28. Which plant group is called amphibious plants ?
(1) Algae (2) Fungi (3) Bryophyta (4) Pteridophyta

29. The tissue which makes the plants hard and stiff is
(1) Parenchyma (2) Chlorenchyma (3) Collenchyma (4) Sclerenchyma

30. Which of the following plant hormones induces cell division ?
(1) Auxin (2) Gibberellin (3) Ethylene (4) Cytokinin.

31. The undifferentiated mass of cells in tissue culture is called
(1) Tissue (2) Embryo (3) Callus (4) Spore

32. Amrita Devi Visnoi of Rajasthan is related with
(1) Plant conservation (2) Education (3) Sports (4) Politics.

33. Which radiation harms ozone layer in the atmosphere ?
(1) Ultraviolet radiation (2) Infrared radiation (3) Radio radiation (4) Red radiation

34. Which cell organ is called “suicide bags” ?
(1) Centrosome (2) Chromosome (3) Lysosome (4) Mesosome

35. The lining of oesophagus and mouth is covered with which type of tissues ?
(1) Cuboidal epithelium (2) Squamous epithelium
(3) Columnar epithelium (4) Stratified squamous epithelium

36. Which is the odd one ?
(1) Planaria (2) Liver-fluke (3) Ascaris (4) Tape-Worm.

37. An egg laying mammal is

(1) Kangaroo (2) Bat (3) Whale (4) Echidna

38. Normal human blod pressure is

(1) 80/120 mm of Hg (2) 120/80 mm of Hg (3) 100/80 mm of Hg (4) 80/100 mm of Hg.

39. Central Nervous system consists of brain and

(1) Spinal cord (2) Spinal nerves (3) Cranial nerves (4) All the nerves.

40. *Raja saurus* is a fossil of

(1) Tree trunk (2) Invertebrate (3) Fish (4) Dinosaur.

41. The cube root of $x+y+3x^{1/3}y^{1/3}\ (x^{1/3}+y^{1/3})$ is

(1) $x+y$ (2) $x^{1/3}+y^{1/3}$ (3) $(x+y)^{1/3}$ (4) $(x+y)^3$

42. Expressing $0.\overline{23} + 0.2\overline{3}$ as a single decimal, we get

(1) $0.46\overline{5}$ (2) $0.4\overline{65}$ (3) $0.\overline{465}$ (4) $0.465\overline{4}$

43. If $(x + \sqrt{2})$ is a factor of $kx^2 - \sqrt{2}x + 1$, then the value of k is

(1) $-\frac{3}{2}$ (2) $-\frac{2}{3}$ (3) $\frac{3}{2}$ (4) $\frac{2}{3}$

44. In the equations $3x + 2y = 13xy$ and $4x - 5y = 2xy$, the values of x and y that satisfy the equations are

(1) (2,3) (2) (3,2) (3) $\left(\frac{1}{2},\frac{1}{3}\right)$ (4) $\left(\frac{1}{3},\frac{1}{2}\right)$

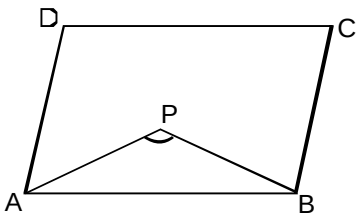
45. The angles of elevation of the top of a tower from two points at a distance of 9 m and 16 m from the base of the tower and in the same straight line in the same direction with it are complementary. Then height of the tower is

(1) 12 m (2) 15 m (3) 20 m (4) 25 m

46. If $\sin\theta = p$ and $\cos\theta = q$ then the value of $\frac{p-2p^3}{2q^3-q}$ is

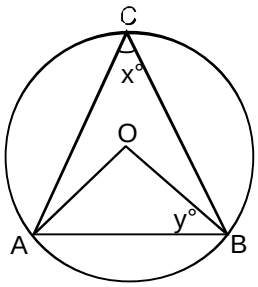
(1) $\sec\theta$ (2) $\operatorname{cosec}\theta$ (3) $\cot\theta$ (4) $\tan\theta$

47. If AP and BP are the bisector of the angle A and angle B of a parallelogram ABCD, then value of the angle APB is



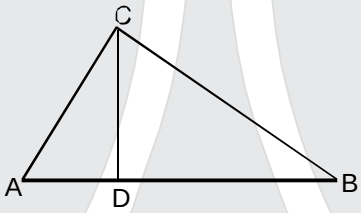
(1) 30° (2) 45° (3) 60° (4) 90°

48. In the following figure O is the centre of circle and ∠ACB = x°, ∠OBA = y° then the value of x° + y° is



(1) 90° (2) 120° (3) 150° (4) 180°

49. In the following figure ∠ACB = 90° and CD ⊥ AB. If AD = 4 cm and BD = 9 cm then the ratio BC : AC is



(1) 3 : 2 (2) 2 : 3 (3) 16 : 81 (4) 81 : 16

50. If in a right angled triangle the hypotenuse is to be 1 cm longer than the base and 2 cm longer than the altitude, then the perimeter of the triangle is

(1) 24 cm (2) 20 cm (3) 12 cm (4) 10 cm

51. If the roots of a quadratic equation $2x^2 + 3kx + 8 = 0$ are equal, the value of k is

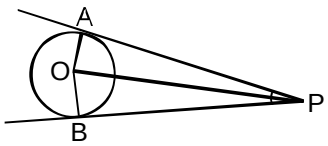
(1) $\pm\frac{2}{3}$ (2) $\pm\frac{3}{2}$ (3) $\pm\frac{3}{8}$ (4) $\pm\frac{8}{3}$

52. If a = x – y, b = y – z and c = z – x then the value of $a^3 + b^3 + c^3$ is

(1) 3(x – y) (y – z) (z – x) (2) $(x - y)^3 (y - z)^3 (z - x)^3$

(3) $(x + y + z)^3$ (4) $x^3 + y^3 + z^3$

53. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at an angle of 110°, then ∠POA is equal to



(1) 65° (2) 55° (3) 45° (4) 35°

54. Two coins are tossed once. The probability of getting at least one tail is

(1) $\frac{1}{2}$ (2) $\frac{1}{3}$ (3) $\frac{1}{4}$ (4) $\frac{3}{4}$

55. Value of tan25°tan35°tan45°tan55°tan65° is

(1) 0 (2) 1 (3) $\sqrt{2}$ (4) $\sqrt{3}$

56. The first term of an A.P. is 5, the last term is 45 and the sum is 400. Then the fourth term of A.P. is

(1) 13 (2) 11 (3) 15 (4) 14

57. A cow is tied with a rope of length 12 m at a corner of rectangular field of dimensions 25 m $\times$ 45 m. If the length of the rope is increased to 23m, then the additional grassy area in which the cow can graze is (Take $\pi = \frac{22}{7}$)

(1) 300.5 m^2 (2) 312.5 m^2 (3) 315.5 m^2 (4) 320.5 m^2

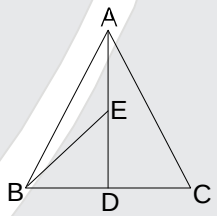
58. If a metallic sphere of radius 6 cm is melted and recast into the shape of a cylinder of radius 3 cm, then the height of the cylinder is

(1) 30 cm (2) 25 cm (3) 35 cm (4) 32 cm

59. If mode of any series is 5 and median is 3 then mean of that series is

(1) 1 (2) 2 (3) 3 (4) 4

60. If the following figure of triangle ABC, E is the midpoint of median AD. The ratio of areas of the triangles ABC and BED is



(1) 1 : 4 (2) 3 : 4 (3) 4 : 1 (4) 4 : 3

61. Which among the following is not correctly matched in relation to the symbols of the French Revolution?

(Attribute)		**(Significance)**
(1) Broken Chains	–	Being freed
(2) Breast plate with eagle	–	Willingness to make peace
(3) Sceptre	–	Symbol of royal power
(4) The winged woman	–	Personification of the law.

62. Match **List-I** with **List-II** correctly and choose the correct code from the following:

List-I	**List-II**
(A) Napleon defeated at Waterloo	(i) 1929
(B) Formation of the Hindustan Socialist Republican Army	(ii) 1919
(C) Formation of Comintern	(iii) 1928
(D) Lahore Congress	(iv) 1815

Code :

	A	B	C	D
(1)	iii	ii	iv	I
(3)	i	iv	ii	iii

	A	B	C	D
(2)	iv	iii	ii	i
(4)	ii	iv	i	iii

63. Find out the correct explanation:
(1) Livre: Unit of currency in France, discontinued in 1794
(2) Clergy: Building belonging to a community devoted to a religious life
(3) Tithe: Tax to be paid directly to the state
(4) Taille : A tax levied-by the church.

64. In which state of India is Gujranwala situated?
(1) Gujarat (2) Rajasthan (3) Karnataka (4) Punjab

65. Who wrote the novel 'Godan' ?
(1) Muhammad Basheer (2) Rabindranath Tagore
(3) Bhudeb Mukhopadhyay (4) Premchand

66. Who was Charles Dickens ?
(1) King (2) Novelist (3) Revolutionary (4) Monk

67. Pay attention on the following points:
(A) The Non-cooperation-Khilafat Movement began in January 1921.
(B) In February 1922, Mahatma Gandhi decided to withdraw the Non-Cooperation Movement.

Choose the correct answer from the codes given below :
(1) only (A) (2) only (B) (3) both (A) and (B) (4) none of these.

68. By which name is the tribe of camel herder called in West Rajasthan ?
(1) Bhakar (2) Faal (3) Bugyal (4) Dhandi.

69. Where was the Imperial Forest Research Institute established in 1906 ?
(1) Dehradun (2) Calcutta (3) Udaipur (4) Bombay.

70. Which one of the following incidents happened first?
(1) Convocation of Estates General (2) Overthrow of the Jacobin Republic
(3) Debates over socialism in Russia (4) Proclamation of the Weimar Republic.

71. When was the first one-day international cricket match between England and Australia played ?
(1) 1971 (2) 1972 (3) 1973 (4) 1974

72. Approximately how much is land boundary of India?
(1) 15200 km (2) 7516.6 km (3) 6100 km (4) 2000 km.

73. What is 'X in the following map ?

(1) Jhelum River (2) Chenab River (3) Ravi River (4) Indus River.

74. How much is the length of Kaveri River ?
(1) 1400 km (2) 1500 km (3) 860 km (4) 760 km.

75. Which one of the following is the characteristic of cold weather season in India ?
(1) Warm days and Warm nights (2) Cold days and Cold nights
(3) Warm days and Cold nights (4) Cold Days and Warm Nights.

76. Match List - I and List – II and choose the correct code from the following :

List -I	List –II
(A) Sunderbans	(i) Uttarakhand
(B) Nanda Devi	(ii) Tamil Nadu
(C) Gulf of Mannar	(iii) Karnataka
(D) Nilgiris	(iv) West Bengal

Code :

	A	B	C	D
(1)	iii	ii	I	iv
(2)	ii	iii	iv	i
(3)	i	iv	iii	ii
(4)	iv	i	ii	iii

77. According to the Census 2001, a 'literate' person is one who
(1) can read and write his/her name
(2) can read and write in any language
(3) knows .the three - reading, writing & arithmetic
(4) is above 7 years and can read and write any language with understanding.

78. Assertion (A) : Black soil has high capacity to hold moisture.
Reason (R) : Black soil develops in areas with high temperature and heavy rainfall.
(1) Both (A) and (R) are true and (R) explains (A)
(2) Both (A) and (R) are true but (R) does not explain (A)
(3) (A) is true and (R) is false
(4) (A) is false and (R) is true.

79. Match List - I and List – II and choose the correct code from the following :

List -1	**List -11**
(A) Extinct Species	(i) Nicobar Pigeon
(B) Vulnerable species	(ii) Asiatic Cheetah
(C) Endangered species	(iii) Black Buck
(D) Endemic species	(iv) Asiatic Elephant

Code :

	A	B	C	D
(1)	iii	ii	I	iv
(2)	ii	iv	iii	i
(3)	i	iii	iv	ii
(4)	iv	i	ii	iii

80. Based on the data provided which of the following crops is most probably indicated?
Equatorial crop having moist and .humid climate, rainfall more than 200 cm, temperature above 25º C, main producer state is Kerala.
(1) Coffee (2) Rubber (3) Jute (4) Sugarcane.

81. Which of the following cities is not connected with National Highway No.8?
(1) Delhi (2) Mumbai (3) Kolkata (4) Jaipur.

82. Nagercoil of Tamil Nadu is famous for
(1) Solar Energy (2) Wind Power (3) Thermal Power (4) Tidal Energy

83. Which of the following statements about the relationship of Democracy and Human Rights is/are correct?
(A) When there is democracy then Rights are certain
(B) Every democratic state gives rights to its citizens
(C) Rights are not necessary for Democracy
(D) Every country that gives rights to its citizens is a democratic country.

(1) A, C, D (2) A, B (3) B, C (4) A, B, D

84. Who acts ,as the Supreme Commander of defence forces of India?
(1) The Chief of Air staff (2) The Chief of Army staff
(3) The President of India (4) The Chief of Navy.

85. Choose the correct statement describing the word 'code of conduct' :
(A) A set of norms and guidelines to be followed by political parties
(B) A set of norms and guidelines to be followed by candidates In Election
(C) Guidelines for Election Commission
(D) Compulsory voting for voters.

(1) A, B, C (2) A, B (3) B, C (4) C, D.

86. Which of the following statements properly define the 'Constitution' ?
(A) Constitution protects the rights of citizens
(B) It determines the functioning of governments
(C) It determine the process of legislation
(D) It decides the name ,of person who is going to be the President.

(1) A,B,D (2) B, C (3) A, B, C (4) B,C, D

87. Which one of the following is the Institution, functioning for International law, Security, Social equity and World peace?
(1) Intemational Monetary Fund (2) United Nations Organisation
(3) World Bank (4) None of these.

88. Who among the following was the pioneer, to abolish caste inequality and establish social harmony?
(1) Sir Sayed Ahmed Khan (2) Dadabhai Naoroji
(3) W. C. Bonerjee (4) Dr. B. R. Ambedkar.

89. Select the mismatched statement given below :
(1) Democracy evolves .through public struggles
(2) Peaceful and non-violent struggles strengthen democracy
(3) Democracy exists only through struggles
(4) Freedom of expression is the identity of democracy.

90. With reference to democratic system, which statement does not match?
(1) Democracy and development go together
(2) Inequality does not exist under dictatorship
(3) Inequalities exist in democracy
(4) Democracy provides freedom of expression and livelihood.

91. There are some statements with reference to power sharing in Indian democratic, system. Select the irrelevant statement:
(1) Participation of public in general election (2) Activeness of Gram Panchayat
(3) Activities of Army (4) We participated in Gram Sabha.

92. Homogeneous Society means
(1) Similar kind of cultural heritage (2) Exist Caste based differences
(3) Absence of community feeling (4) Different kinds of living style of people.

93. Select the mismatched pair from the following names of organisations :
(1) Bhartiya Janata Party, Indian National Congress, Akali Dal
(2) Communist Party of India, Telugu Desam Party
(3) Akhil BhartiyaVidyarthi Parisad, National Student Union of India
(4) Bahujan Samaj Party, Trinamool Congress.

94. Under 'Green Revolution' in India to increase the production of wheat and rice which of the following measures were adopted ?
(1) High Yielding varieties (2) Chemical fertilizers
(3) Irrigation facilities (4) All of these.

95. For Human Capital Formation investment is done in which of the following?
(1) Education and medical care (2) Education, training and medical care
(3) Education and entertainment (4) Medical care and entertainment

96. The accepted average calorie requirements per person per day for rural and urban areas in India are
(1) 2400 calories and 2100 calories (2) 2100 calories and 2400 calories
(3) 2300 calories and 2000 calories (4) 2000 calories and 2300 calories.

97. Annapurna Yojna was started in which year ?
(1) 1995 (2) 1996 (3) 2000 (4) 2004.

98. 'Human Development Report' is published by
(1) UNDP (2) UNESCO (3) WHO (4) WTO.

99. With development in India, in production sector, the importance of which sector has increased ?
(1) Primary sector (2) Secondary sector
(3) Tertiary sector (4) Primary and Secondary sectors.

100. Globalisation has enabled which large Indian company to emerge as multinational company ?
(1) Tata Motors (2) Infosys (3) Ranbaxy (4) All of these

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