



# NTSE (STAGE-II)

## SCHOLASTIC APTITUDE TEST (SAT)

(ACADEMIC SESSION 2015-2016)

### SAMPLE PAPER

#### PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Answers are to be given on a separate OMR sheet.
2. There are 100 questions in this test. All are compulsory. The question numbers 1 to 40 belong to Science, 41 to 60 pertain to Mathematics and 61 to 100 are on Social Science subjects. 90 minutes are allotted for Science, Mathematics and Social Science.
3. Please follow the instructions given on the OMR sheet for marking the answers.
4. Mark your answers for questions 1–100 on the OMR sheet by darkening the circles.
5. There will be a deduction of  $\frac{1}{3}$  marks for every wrong answer and no marks will be deducted for unattempted questions.
6. 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.
7. 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.
8. Rough work can be done anywhere in the booklet but not on the OMR sheet/loose paper.
9. Every correct answer will be awarded one mark.
10. Please return the Test-Booklet and OMR sheet to the invigilator after the test.

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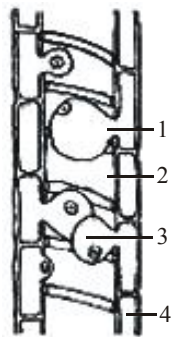
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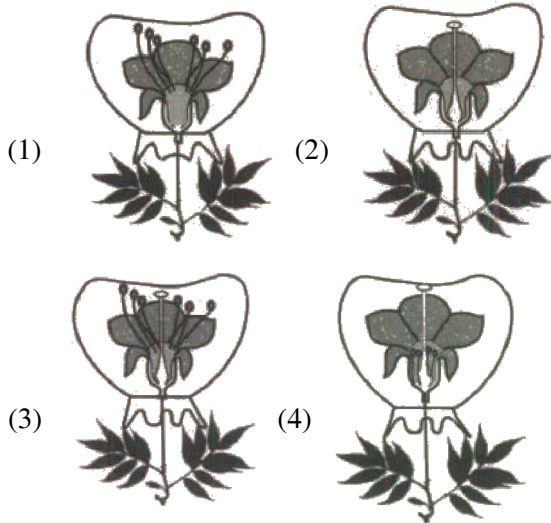
1. Bacteria cannot survive in a highly salted pickle because
  - (1) They become plasmolysed and consequently die
  - (2) They do anaerobic respiration
  - (3) Water is not available to them
  - (4) Of all the reasons mentioned above
2. What is the correct sequence of the main three processes of aerobic respiration?
  - (1) Glycolysis, Oxidative phosphorylation and Krebs' cycle
  - (2) Krebs' cycle, Glycolysis and Oxidative phosphorylation
  - (3) Glycolysis, Krebs' cycle and Oxidative phosphorylation
  - (4) Sequence is not certain
3. Where does assimilation occur?
  - (1) In the liver
  - (2) In every cell of the body
  - (3) In small intestine
  - (4) In blood
4. The given figure shows the anatomical structure of certain plant tissues. If you are to label the parts marked 1, 2, 3 & 4 you would choose :



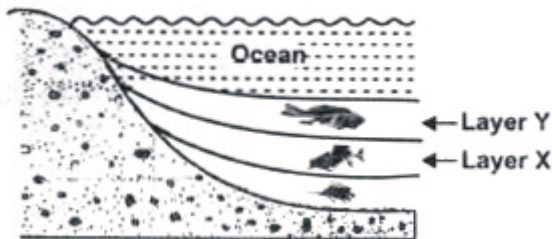
- (1) 1 Tracheid, 2 Pit, 3 Tyloses, 4 Parenchyma
  - (2) 1 Parenchyma, 2 Tracheid, 3 Tyloses, 4 Pit
  - (3) 1 Pit, 2 Tracheid, 3 Tyloses, 4 Parenchyma
  - (4) 1 Tyloses, 2 Parenchyma, 3 Pit, 4 Tracheid
5. Species X are chlorophyllous plants which are autotrophic in their mode of nutrition & may be green, yellow, orange & red colour etc. Species X belongs to division Y which are nonvascular plants and whose plant body is not differentiated into true roots, stems & leaves and have unicellular and nonjacketed sex organs. In the above passage division Y is
    - (1) Bryophyta
    - (2) Thallophyta
    - (3) Pteridophyta
    - (4) Gymnosperms

6. It is a component of plasma membrane.
  - (1) Phosphorus
  - (2) Manganese
  - (3) Magnesium
  - (4) Potassium
7. Which cells are produced in the bone marrow?
  - (1) chondriocytes and muscle cells
  - (2) blood cells and neurons
  - (3) stem cells and neurons
  - (4) stem cells and blood cells
8. If Henle's loop were absent from mammalian nephron, which of the following is to be expected :
  - (1) The urine will be more in volume
  - (2) There will be no urine formation
  - (3) There will be hardly any change in the quality and quantity of urine formed
  - (4) The urine will be more concentrated
9. Choose the correct statement that describes arteries :
  - (1) They have thick elastic walls, blood flows under high pressure; collect blood from different organs and bring it back to the heart.
  - (2) They have thin walls with valves inside, blood flows under low pressure and carry blood away from the heart to various organs of the body
  - (3) They have thick elastic walls, blood flows under low pressure; carry blood from the heart to various organs of the body.
  - (4) They have thick elastic walls without valves inside, blood flows under high pressure and carry blood away from the heart to different parts of the body.
10. If cerebellum of man gets damaged, his movement become
  - (1) Shaky & speech become defective
  - (2) Unbalanced, walk uncontrolled, defective speech & intention tremor
  - (3) Jerky & defective speech
  - (4) Jerky & walk uncontrolled

11. Anushka bagged four different kinds of flowers on the potted plants as represented by given figure and left them as such. Which of these four flowers is most likely to produce fruits and seeds?



12. According to Mendel, each gamete carries only one factor or allele either dominant or recessive. This is called
- (1) The law of purity of gamete
  - (2) The law of segregation
  - (3) The principle of dominance
  - (4) Both 1 & 2
13. The given figure shows undisturbed sedimentary strata at the bottom of an ocean. The fossil found in layer Y resembles the fossil found in layer X. This similarity most likely suggests that

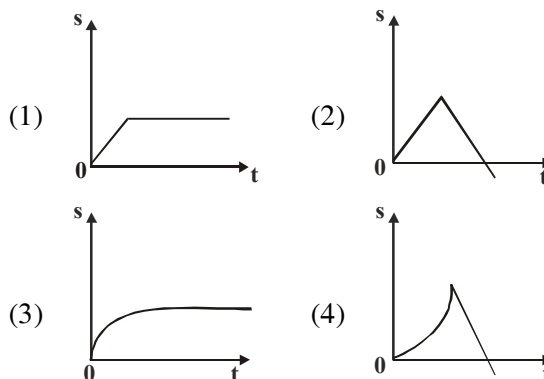
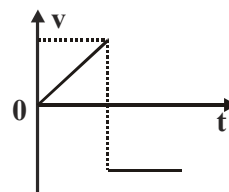


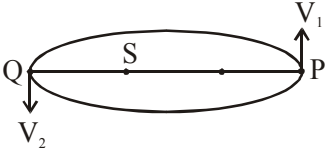
- (1) The fossil of layer X must be more complex than that of layer Y
- (2) Modern forms of life may have evolved from earlier forms of life
- (3) The fossil of layer Y was formed before the fossil of layer X
- (4) Vertebrate fossils are found only in sediments

14. Concentration of DDT is highest in
- (1) Primary consumer
  - (2) Producers
  - (3) Top consumer
  - (4) Decomposers
15. In which phenomenon water changes into water vapour below its boiling point ?
- (1) Evaporation
  - (2) Sublimation
  - (3) Vaporisation
  - (4) No such phenomenon exists.
16. When a mixture of common salt, ammonium chloride and sand is heated in a china dish, it is observed that
- (1) sodium chloride gets deposited on the cooler part of the funnel while sand and ammonium chloride remain, in the china dish.
  - (2) Both sodium chloride and ammonium chloride get deposited on the cooler part of the funnel while sand remains in the china dish.
  - (3) Ammonium chloride gets deposited on the cooler part of the funnel while sand and sodium chloride remain in the china dish.
  - (4) Mixture of common salt, sand and ammonium chloride turns into greyish crystals when allowed to cool.
17. A vessel contains 4.4g of  $\text{CO}_2$ . It means that it contains
- (1) 0.01 mole of  $\text{CO}_2$
  - (2)  $6.022 \times 10^{22}$  molecules of  $\text{CO}_2$
  - (3) 8.8 g atoms of oxygen
  - (4) 1120 mL of  $\text{CO}_2$  at STP
18. Which of the following statements is not true?
- (1) Most of the space in an atom is empty.
  - (2) The total number of neutrons and protons is always equal in a neutral atom.
  - (3) The total number of electrons and protons in an atom is always equal.
  - (4) The total number of electrons in any energy level can be calculated by the formula  $2n^2$ .
19. In electrolysis of water, the ratio of volume of gases evolved at anode and Cathode respectively is
- (1) 1 : 2
  - (2) 2 : 1
  - (3) 2 : 2
  - (4) 1 : 1

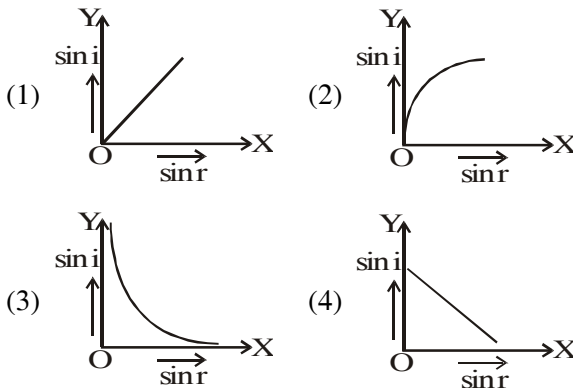
20. You have two solutions, A and B. The pH of solution A is 6 and pH of solution B is 8. Which solution has more  $H^+$  ion concentration ?
- (1) A
  - (2) B
  - (3) Both have equal concentration
  - (4) Cannot be determined.
21. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solutions would reverse the change ?
- (1) Baking powder
  - (2) Lime
  - (3) Ammonium hydroxide solution
  - (4) Hydrochloric acid
22. When a mixture of iron oxide and aluminium powder, is heated, intense heat is generated. This fact is made use of in
- (1) Soldering
  - (2) Welding of steel
  - (3) Making iron
  - (4) Cutting of metals
23. Which of the following statements is/are correct about iron?
- (A) Stainless steel is an alloy of nickel, chromium and iron.
  - (B) Pure iron is very soft and stretches easily when hot.
  - (C) Iron is the most widely used metal.
- (1) A & B
  - (2) A & C
  - (3) Only A
  - (4) A, B & C
24. Presence of calcium and magnesium salts in water results in scum formation. The effect of above mentioned conditions is overcome by usage of detergents because
- (i) detergents are generally ammonium or sulphonate salts of long chain carboxylic acid.
  - (ii) the charged ends of these compounds do not form insoluble precipitates with Calcium and Magnesium ions.
  - (iii) they are usually used to make shampoos and products for cleaning clothes.
- (1) (i) & (iii)
  - (2) (i) & (ii)
  - (3) (ii) & (iii)
  - (4) (i), (ii) & (iii)

25. How are the following related to each other ?
- (A) 3-Methylbutan-2-ol
  - (B) 3,3-Dimethylbutan-2-ol
  - (C) 2,3,3-Trimethylbutan-2-ol
- (1) They are allotropes.
  - (2) They are isomers.
  - (3) They are homologues.
  - (4) They are isobars.
26. An element X has electronic configuration 2, 8, 3. What is true about this element ?
- (A) Its atomic radius will be more than that of an element Y having electronic configuration 2, 8, 7.
  - (B) The oxide formed by X will react with aqueous solution of hydroxide of an element with electronic configuration 2, 8, 1.
  - (C) It lies in the same group as Boron (metalloid) and gallium.
- (1) A & B
  - (2) B & C
  - (3) Only B
  - (4) A, B & C
27. Which of the following properties generally increases on moving from top to bottom in a group ?
- (1) Ionization energy
  - (2) Non-metallic character
  - (3) Atomic size
  - (4) Valency
28. The velocity-time graph for a particle moving along x-axis is shown in the figure. The corresponding displacement-time graph is correctly shown by



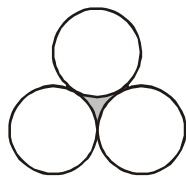
29. A block of 20 kg mass is pulled up a slope by applying a force acting parallel to the slope. If the slope makes an angle of  $30^\circ$  with the horizontal, calculate the work done in pulling the load up a distance of 3.0 m. What is the increase in potential energy of the block? Assume the force of friction is zero. (Take  $g = 10 \text{ N/kg}$ )
- (1) 300 J, 600 J  
(2) 600 J, 300 J  
(3) 300 J, 300 J  
(4) 600 J, 600 J
30. A stone weighing 250 g is tied to a string of length 25 cm and whirled in a horizontal plane over the top of a friction less table with a uniform speed. Find the maximum speed with which the stone can be whirled if the string can bear at most a load of 14.4 kgf. (Take  $g = 10 \text{ ms}^{-2}$ )
- (1)  $10 \text{ ms}^{-1}$                       (2)  $11 \text{ ms}^{-1}$   
(3)  $12 \text{ ms}^{-1}$                       (4)  $13 \text{ ms}^{-1}$
31. A missile of mass  $M$  moving with velocity  $v$  in free space explodes into two parts. After the explosion one of the parts of mass  $m$  falls vertically down. The other part proceeds with velocity
- (1)  $\frac{Mv}{m}$                               (2)  $\frac{Mv}{(M-m)}$   
(3)  $\frac{(M-m)v}{M}$                               (4)  $\frac{mv}{M-m}$
32. An oil-tanker explodes in the sea. At that instant an aircraft and a submarine were present vertically above and below the oil-tanker respectively at equal distance from it. Find the ratio of the time taken by sound waves to reach them. (Speed of sound in air = 340 m/s. Speed of sound in sea water = 1520 m/s.)
- (1) 5.40                              (2) 4.47  
(3) 5.57                              (4) 6.40
33. The figure shown below is an elliptical orbit along which a planet revolves round the sun. Let the velocity of planet at P and Q positions be  $V_1$  and  $V_2$  respectively. Then, the possible relationship between magnitudes of  $V_1$  and  $V_2$  is
- 
- (1)  $V_1 < V_2$   
(2)  $V_1 = V_2$   
(3)  $V_1 > V_2$   
(4) Cannot be determined
34. Wires A and B are made from the same material. Wire A has length 12 m and weighs 50 g, while wire B is 18 m long and weighs 40 g. Then the ratio ( $R_A/R_B$ ) of their resistances will be
- (1) 16/45    (2) 4/5    (3) 8/15    (4) 4/9
35. An electric bulb is marked 18 watt, 240 volt. If it is used across 240 V power line for one hour daily, calculate the number of days to consume 1 unit electric energy.
- (1) 54.5 days                      (2) 55.5 days  
(3) 56.5 days                      (4) 57.5 days
36. A charged particle of charge  $q$  moving with velocity  $v$  enters along the axis of a current carrying solenoid. The magnetic force on the particle is
- (1) Zero                              (2)  $qvB$   
(3) Finite but not  $qvB$     (4) Infinite
37. Two different loops are concentric and lie in the same plane. The current in the outer loop is clockwise and increasing with time. The induced current in the inner loop then, is
- (1) clockwise  
(2) zero  
(3) counter clockwise  
(4) in a direction that depends on the ratio of the loop radii
38. Thin strips of iron and zinc are riveted together to form a bimetallic strip that bends when heated. The iron is on the inside of the bend because
- (1) it has a higher coefficient of linear expansion  
(2) it has a lower coefficient of linear expansion  
(3) it has a higher specific heat  
(4) it has a lower specific heat

39. The power and type of the lens by which a person can see clearly the distant objects, if a person cannot see objects clearly beyond 40 cm, are
- (1) - 2.5 D and concave lens
  - (2) + 2.5 D and convex lens
  - (3) - 1.5 D and concave lens
  - (4) + 1.5 D and convex lens
40. Which of the following correctly represents graphical relation between sine of angle of incidence (i) and sine of angle of refraction (r) for a given pair of media ?



41. Three circles of equal radii touch each other as shown in figure. The radius of each circle is 1 cm. What is the area of shaded region?

- (1)  $\left(\frac{2\sqrt{3} - \pi}{2}\right) \text{cm}^2$
- (2)  $\left(\frac{3\sqrt{2} - \pi}{3}\right) \text{cm}^2$
- (3)  $\frac{2\sqrt{3}}{\pi} \text{cm}^2$
- (4) None of these



42. 300 apples are distributed equally among a certain number of students. Had there been 10 more students, each would have received one apple less. Find the number of students.
- (1) 30
  - (2) 40
  - (3) 50
  - (4) 60
43. From the top of a cliff 60 metres high, the angles of depression of the top and bottom of a tower are observed to be  $30^\circ$  and  $60^\circ$ , find the height of the tower.
- (1) 30 m
  - (2) 40 m
  - (3) 50 m
  - (4) 60 m

44. The number of terms common to the two A.P.'s  $2 + 5 + 8 + 11 + \dots + 98$  and  $3 + 8 + 13 + 18 + \dots + 198$
- (1) 33
  - (2) 40
  - (3) 7
  - (4) None of these
45. Any positive even integer is of the form
- (1)  $4q + 1$
  - (2)  $4q + 3$
  - (3)  $4q$  or  $4q + 2$
  - (4)  $4q + 5$
46. If the polynomial  $3x^2 - x^3 - 3x + 5$  is divided by another polynomial  $x - 1 - x^2$ , the remainder comes out to be 3, then quotient polynomial is
- (1)  $2 - x$
  - (2)  $2x - 1$
  - (3)  $3x + 4$
  - (4)  $x - 2$
47. The equations  $x - y = 0.9$  and  $\frac{11}{x+y} = 2$  have the solution
- (1)  $x = 5, y = 1$
  - (2)  $x = 3.2$  and  $y = 2.3$
  - (3)  $x = 3, y = 2$
  - (4) None of these
48. If A be the event such that  $P(A) = \frac{2}{5}$ , then  $P(\text{not } A)$  is equal to
- (1)  $\frac{3}{5}$
  - (2)  $\frac{4}{5}$
  - (3)  $\frac{1}{5}$
  - (4) None
49. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.
- (1) 2 cm
  - (2) 4 cm
  - (3) 6 cm
  - (4) 8 cm
50. The distance between the points  $(a \cos 20^\circ + b \sin 20^\circ, 0)$  and  $(0, a \sin 20^\circ - b \cos 20^\circ)$  is :
- (1)  $(a + b)$
  - (2)  $(a - b)$
  - (3)  $\sqrt{a^2 - b^2}$
  - (4)  $\sqrt{a^2 + b^2}$
51. A solid metal cone with base-radius 12 cm and height 24 cm, is melted to form solid spherical balls, each of diameters 6 cm. The number of such balls made is
- (1) 32
  - (2) 36
  - (3) 48
  - (4) none of these
52. If  $x = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$  and  $y = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$ , find  $x^2 + y^2$ .
- (1) 78
  - (2) 87
  - (3) 98
  - (4) 89

53. If  $9^{x-1} = 3^{2x-1} - 486$  then the value of x is

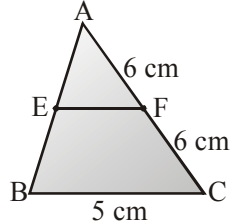
- (1) 3.5      (2) 2.5      (3) 1.5      (4) 0

54. The bisectors of any two adjacent angles of a parallelogram intersect at

- (1)  $30^\circ$       (2)  $45^\circ$       (3)  $60^\circ$       (4)  $90^\circ$

55. In figure EF =

- (1) 3 cm  
(2) 2.5 cm  
(3) 4 cm  
(4) None of these



56. If one angle of a triangle is equal to the sum of the other two angles, then the triangle is

- (1) An isosceles triangle  
(2) An obtuse triangle  
(3) An equilateral triangle  
(4) A right triangle

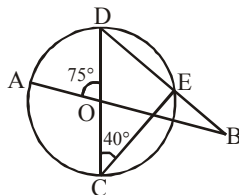
57. The ages of 40 students in a class are given below

Age (in years)	12	13	14	15	16	17
Number of students	6	8	5	7	9	5

Find the mean age of the class.

- (1) 14 yr                      (2) 15 yr  
(3) 14.5 yr                  (4) 15.5 yr

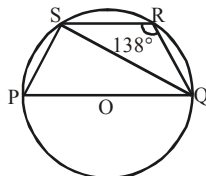
58. In the given figure, the straight lines AB and CD pass through the centre O of the circle. If  $\angle AOD = 75^\circ$  and  $\angle OCE = 40^\circ$ , find :



- (1)  $30^\circ$       (2)  $40^\circ$       (3)  $50^\circ$       (4)  $60^\circ$

59. In the given figure POQ is a diameter of a circle with centre O and PQRS is a cyclic quadrilateral. SQ is joined. If  $\angle R = 138^\circ$ , find  $\angle PQS$ .

- (1)  $90^\circ$   
(2)  $42^\circ$   
(3)  $48^\circ$   
(4)  $38^\circ$



60. Compute the missing frequencies ' $f_1$ ' and ' $f_2$ ' in the following data, if the mean is  $166\frac{9}{26}$  and the sum of the observations is 52.

Classes	Frequency
140-150	5
150-160	$f_1$
160-170	20
170-180	$f_2$
180-190	6
190-200	2
Total	52

- (1)  $f_1 = 10, f_2 = 9$       (2)  $f_1 = 8, f_2 = 10$   
(3)  $f_1 = 7, f_2 = 12$       (4)  $f_1 = 11, f_2 = 8$

61. Match the following columns, related to Land degradation

	Column A		Column B
(a)	Jharkhand, Chhattisgarh, M.P & Orissa	(i)	generate huge quantity of dust in the Atmosphere
(b)	Gujarat, Rajasthan, M.P & Maharashtra	(ii)	over irrigation is responsible for land degradation due to water logging leading to increase in salinity and alkalinity in the soil
(c)	Punjab, Haryana, Western U.P	(iii)	deforestation due to mining have caused severe land degradation
(d)	Mineral processing	(iv)	overgrazing is one of the main reasons for land degradation

- (1) (a) iv, (b) iii, (c) ii, (d) i  
(2) (a) iii, (b) iv, (c) ii, (d) i  
(3) (a) iv, (b) iii, (c) i, (d) ii  
(4) (a) iii, (b) iv, (c) i, (d) ii

62. Which of the following is not a negative factor which has led to the fearful depletion of the flora and fauna ?

- (1) During the colonial period due to the expansion of the railways, agriculture, commercial and scientific forestry and mining activities.  
(2) Large-scale development projects, mining is another important factor  
(3) Creation of Virgin forests in pristine form  
(4) Grazing and fuel wood collection

**63.** Statement I - Water is sufficiently available to meet the needs of the people, but the area still suffers from water scarcity.

Statement II - Even if there is ample water to meet the needs of the people much of it may be polluted by domestic and industrial wastes, chemicals, pesticides and fertilisers, thus, making it hazardous for human use.

- (1) Statement I is right, but Statement II is wrong.  
 (2) Statement II is right, but Statement I is wrong  
 (3) Statement I and II both are right, but Statement I is the correct explanation of Statement II  
 (4) Statement I and II both are right, but Statement II is the correct explanation of Statement I

**64.** "The farmers continue to take maximum output from the limited land in the absence of alternative source of livelihood. Thus, there is enormous pressure on agricultural land."

This type of agriculture is -

- (1) Primitive Subsistence Farming  
 (2) Intensive Subsistence Farming  
 (3) Commercial Farming  
 (4) Plantation Farming

**65.** \_\_\_\_\_ mines located in the Western Ghats of Karnataka are a 100 percent export unit. These are known to be one of the largest in the world. The ore is transported as slurry through a pipeline to a port near Mangalore.

- (1) Copper (2) Gypsum  
 (3) Bauxite (4) Platinum

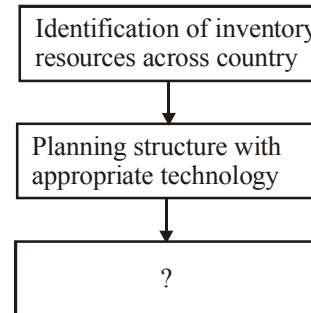
**66.** What were the objectives of National Jute Policy formulated in 2005 ?

- (a) Increasing productivity  
 (b) Improving quality  
 (c) Ensuring good prices to the jute farmers  
 (d) Enhancing the yield per hectare  
 (1) (a), (b) & (c) are correct  
 (2) (b), (c) & (d) are correct  
 (3) (a), (c) & (d) are correct  
 (4) (a), (b), (c) & (d) all are correct

**67.** Which mode of transport is also used as a feeder to other modes of transport ?

- (1) Roadways (2) Railways  
 (3) Airways (4) Pipelines

**68.** Complete the following flow chart ?



- (1) Matching the resource development with over all national development plans  
 (2) Leads to National development plans  
 (3) Skills and institutional let up for implementing resource development plane  
 (4) Leads to Balanced. State and regional level plans

**69.** Why is the tertiary sector becoming so important in India ?

- (a) Govt. taking the responsibility for the provision of providing basic services.  
 (b) Development of agriculture and industry lead to the development of services such as transport, trade, storage and alike.  
 (c) In India maximum population is based on agriculture, that's why this sector dominates.  
 (d) As income level rise, certain sections of people start demanding many more services.  
 (e) Over the past decade or so, certain new services such as those based on information and communication technology have become important and essential.

- (1) (a), (b), (c) & (d) are correct  
 (2) (a), (b), (d) & (e) are correct  
 (3) (b), (c), (d) & (e) are correct  
 (4) (a), (b), (c), (d) & (e) all are correct



70. What a person desires to sell is exactly what the other wishes to buy. In a system where goods are directly exchanged without the use of money, it is an essential feature
- (1) Plastic Money
  - (2) Double Coincidence of wants
  - (3) Currency
  - (4) None of the above
71. Which of the following states do not have an international border or lie on the coast
- (1) Haryana, Delhi, Punjab & Uttaranchal
  - (2) West Bengal, Jharkhand, Assam & Meghalaya
  - (3) Chhattisgarh, M.P, Jharkhand & Haryana
  - (4) Assam, Jharkhand, Chhattisgarh & Haryana
72. Which landmass formed the Gondwanaland
- (1) N.America, India, Australia, South Africa
  - (2) Europe, Australia, South Africa, S.America
  - (3) India, Australia, South Africa, S.America
  - (4) Eurasia, South Africa, S. America, Australia
73. Match the following columns

	Column A (River)		Column B (origin place)
(a)	Indus	(i)	Satpura ranges of the Betul district of M.P
(b)	Brahmaputra	(ii)	Slopes of the Western Ghats in the Nashik district of Maharashtra.
(c)	Narmada	(iii)	Highlands of Chhattisgarh
(d)	Tapi	(iv)	Spring near Mahabaleshwar
(e)	Godavari	(v)	Rises in Tibet, east of Mansarowar lake
(f)	Mahanadi	(vi)	Brahmagiri range of the Western Ghats
(g)	Krishna	(vii)	Amarkantak hills in M.P
(h)	Kaveri	(viii)	Rises in Tibet, near Lake Mansarowar

- (1) (a) viii, (b) v, (c) vii, (d) i, (e) ii, (f) iii, (g)iv, (h) vi
- (2) (a) viii, (b) vi, (c) vii, (d) i, (e) iii, (f) ii, (g)iv, (h) v
- (3) (a) vii, (b) v, (c) viii, (d) i, (e) ii, (f) iii, (g)iv, (h) vi
- (4) (a) viii, (b) vi, (c) vii, (d) i, (e) iii, (f) ii, (g)iv, (h) v

74. A characteristic feature of this season over the northern plains is the inflow of cyclonic disturbances from the west and the northwest. These low-pressure systems, originate over the Mediterranean Sea and Western Asia and move into India, along with the easterly flow.
- (1) Hot Weather Season
  - (2) Advancing Monsoon Season
  - (3) Retreating Monsoon Season
  - (4) Cold Weather Season
75. The common animals found in these forests are Kashmir Stag, Spotted Deer, Wild Sheep, Jack Rabbit, Shaggy Horn, Wild Ibex, Bear and Rare Red Panda, Sheep and Goats with thick hair.
- (1) Tropical Deciduous Forests
  - (2) Thorn Forests and Scrubs
  - (3) Montane Forests
  - (4) Mangrove Forests
76. \_\_\_\_\_ provides a policy framework for importing free & compulsory school education up to 14 years of age, reducing infant mortality rate to below 30 per 1000 live births, achieving universal immunisation of children against all vaccine preventive diseases, promoting delayed marriage for girls and making family welfare a people centered programme.
- (1) National Population Policy
  - (2) Population Growth Policy
  - (3) National Policy for Health of Women and Children
  - (4) Human Development Index
77. Which of the following statements are not true regarding the Poverty among the Vulnerable Groups ?
- (1) Social groups which are most vulnerable to poverty are scheduled caste and scheduled tribe households.
  - (2) Among the economic groups, the most vulnerable groups are the rural agricultural labour households and the urban casual labour households.
  - (3) Recent studies have shown that except for the Scheduled Tribe households, all the other groups (i.e. scheduled castes and the urban casual labour households) have seen a decline in poverty in the 1990s.
  - (4) Women, children and old people are poorest of the poor.

- 78.** Food security is ensured in a country only if -
- (1) Enough food is available for all the persons
  - (2) All persons have the capacity to buy food of acceptable quality
  - (3) There is no barrier on access to food
  - (4) All of the above
- 79.** "Prakash sent a moneyorder to his village for his daughter's marriage. The money did not reach his daughter at the time when she needed it nor did it reach months later. Prakash filed a case in a district level consumer court in New Delhi."
- The above story tells us about which Consumer Right
- (1) Right to Safety
  - (2) Right to be Informed
  - (3) Right to Choose
  - (4) Right to seek Redressal
- 80.** Which of the following statements are not correct about Giuseppe Mazzini ?
- (a) Born in Genoa in 1807, become a member of the secret society of the Carbonari.
  - (b) Founded underground societies, Young Italy in Marseilles and Young Europe in Berne.
  - (c) Celebrated the national struggle through his operas and music, turning folk dances.
  - (d) Organised funds and later went to fight in the war, where he died of fever in 1824.
  - (e) Metternich described him as 'the most dangerous enemy of our social order'.
- (1) (a), (b), (c) & (d) are correct
  - (2) (b), (c), (d) & (e) are correct
  - (3) (a), (b) & (e) are correct
  - (4) (a), (b), (c), (d) & (e) all are correct
- 81.** Statement I - The Awadh peasant movement asked for social boycott of oppressive landlords.
- Statement II - In many places nai-dhobi bandhs were organised by panchayats to deprive landlords of the services of even barbers and washermen.
- (1) Statement I is right, but Statement II is wrong.
  - (2) Statement II is right, but Statement I is wrong
  - (3) Statement I and II both are right, but Statement I is the correct explanation of Statement II
  - (4) Statement I and II both are right, but Statement II is the correct explanation of Statement I
- 82.** In the late Nineteenth century, Europeans were attracted to Africa due to its vast
- (1) Land and Mineral Resources
  - (2) Population
  - (3) Forest and Wildlife Resources
  - (4) All of the above
- 83.** Why the better-off city dwellers recognised the need for housing for the poor in London ?
- (1) The vast mass of one-room houses occupied by the poor were seen as a serious threat to public health.
  - (2) There were worries about fire hazards
  - (3) There was a widespread fear of social disorder
  - (4) All of the above
- 84.** Match the following columns related to Authors/Editors and the Books/Newspapers by them -
- | Column A             | Column B                |
|----------------------|-------------------------|
| (a) Rashsundari Debi | (i) Gulamgiri           |
| (b) Ram Chaddha      | (ii) Sacchi Kavitayen   |
| (c) Jyotiba Phule    | (iii) Sambad Kaumudi    |
| (d) Sudarshan Chakra | (iv) Amar Jiban         |
| (e) Ram Mohan Roy    | (v) Istri Dharam Vichar |
- (1) (a) v, (b) iv, (c) ii, (d) iii, (e) i
  - (2) (a) iv, (b) v, (c) i, (d) ii, (e) iii
  - (3) (a) v, (b) iv, (c) ii, (d) i, (e) iii
  - (4) (a) iv, (b) v, (c) ii, (d) iii, (e) i

85. He wrote about the terrible effects of industrialisation on people's lives and characters. His novels describe Coketown, a fictitious industrial town, as a grim place full of machinery, smoking chimneys, rivers polluted purple and buildings that all looked the same. Here workers are known as 'hands', as if they had no identity other than as operators of machines.

Identify the author and his novels

- (1) Charles Dicken's - Pickwick Papers
- (2) Charles Dicken's - Hard Times
- (3) Charles Dicken's - Oliver Twist
- (4) Emile Zola's - Germinal

86. The \_\_\_\_\_ planned an insurrection of a number of Parisians who were angered by the short supplies and high prices of food. On the morning of August 10 they stormed the Palace of Tuileries, massacred the King's guards and held King himself as hostage for several hours.

- (1) National Assembly
- (2) Agitated crowd in the countryside
- (3) Women under the leadership of Olympe de Gouges
- (4) Jacobins

87. Match the following events related to Russian Revolution

	Year		Event
(a)	1898	(i)	Beginning of Collectivisation
(b)	1905	(ii)	Formation of Comintern
(c)	1918-20	(iii)	Bloody Sunday and the Revolution
(d)	1919	(iv)	Formation of the Russian Social Democratic Workers Party
(e)	1929	(v)	The Civil War

- (1) (a) v, (b) iii, (c) ii, (d) iv, (e) i
- (2) (a) iv, (b) v, (c) i, (d) ii, (e) iii
- (3) (a) iv, (b) iii, (c) v, (d) ii, (e) i
- (4) (a) iv, (b) v, (c) ii, (d) iii, (e) i

88. Which of the following statements are true about the famous Enabling Act

- (a) It was passed on 28. Feb. 1933
- (b) Established dictatorship in Germany, gave Hitler all powers to sideline Parliament and rule by decree.
- (c) Indefinitely suspended civic rights like freedom of speech, press and assembly that had been guaranteed by the Weimar Constitution.
- (d) All political parties and trade unions were banned except for the Nazi party and its affiliates
- (e) The state established complete control over the economy, media, army and judiciary

- (1) (a), (b), (c) & (d) are correct
- (2) (b), (c) & (e) are correct
- (3) (b), (d) & (e) are correct
- (4) (a), (b), (c), (d) & (e) all are correct

89. Name the leader of the Dhurwas of the Kanger forest who led the movement against the Forest reservation policies of British in Bastar.

- (1) Gunda Dhur of Nethanar
- (2) Surontiko Samin of Randublatung
- (3) Chendru of Nandrasa
- (4) Birsa Munda of Kanger

90. Every Candidate who is fighting elections in India, has to make a legal declaration, giving full details of

- (a) Serious criminal cases pending against the candidate
- (b) Details of the assets and liabilities of the candidate and his or her family
- (c) Educational qualifications of the candidates
- (d) Public welfare work/programmes adopted by her/him

- (1) (a), (b) & (c) are correct
- (2) (b), (c) & (d) are correct
- (3) (a), (c) & (d) are correct
- (4) (a), (b), (c) & (d) all are correct

91. At different levels of government we find functionaries who take day to day decisions but do not exercise supreme power on behalf of the people. All these functionaries are collectively known as the -
- (1) Legislatures (2) Executives  
 (3) Judges (4) Decision makers
92. Under the Right Against Exploitation, the Constitution mentions three specific evils and declares illegal. They are
- (a) Prohibits human traffic  
 (b) Prohibits forced labour or begar in any form  
 (c) Prohibits Child Labour  
 (d) Prohibits Sati Pratha and Dowry in any form
- (1) (a) & (b) are correct  
 (2) (b) & (c) are correct  
 (3) (a), (b) & (c) are correct  
 (4) (a), (b), (c) & (d) all are correct
93. Which of the following statements is wrong regarding the power shared among different organs of Government
- (1) Also termed as vertical division of power  
 (2) Such a separation ensures that none of the organs can exercise unlimited powers  
 (3) It results in a balance of power among various institutions  
 (4) This arrangement is called as system of Check and Balance
94. Which one of the following is not an example of 'coming together' federation
- (1) USA (2) Switzerland  
 (3) Australia (4) Spain
95. Which factor/factors are crucial in deciding the outcomes of politics of social divisions ?
- (a) How people perceive their identities  
 (b) How the government reacts to demands of different groups  
 (c) How people put their demands in front of the government  
 (d) How political leaders raise the demands of any communities
- (1) (a) & (b) are correct  
 (2) (b) & (c) are correct  
 (3) (a), (b) & (c) are correct  
 (4) (a), (c) & (d) all are correct

96. Which factors prove that, 'while caste matters in electoral politics, so do many other factors'
- (a) The voters have strong attachment to political parties which is often stronger than their attachment to their caste or community.  
 (b) People within the same caste or community have different interests depending on their economic conditions.  
 (c) Rich or poor or men and women from the same caste often vote very differently.  
 (d) People's assessment of the performance of the government and the popularity rating of the leaders matter and are often decisive in elections.
- (1) (a), (b) & (c) are correct  
 (2) (b), (c) & (d) are correct  
 (3) (a), (c) & (d) are correct  
 (4) (a), (b), (c) & (d) all are correct
97. These promote collective rather than selective good. They aim to help groups other than their own members. For example, a group fighting against bonded labour fights not for itself but for those who are suffering under such bondage.
- (1) Sectional Interest Group  
 (2) Public Interest Group  
 (3) Issue specific movement  
 (4) Generic movement
98. Match the following Columns

	Political Party		State it belongs to
(a)	Maharashtrawadi Gomantak Party	(i)	Haryana
(b)	Forward Bloc	(ii)	Bihar
(c)	Dravida Munnetra Kazhagan	(iii)	Uttar Pradesh
(d)	Lok Jan Shakti Party	(iv)	Goa
(e)	Indian National Lok Dal	(v)	Tamil Nadu
(f)	Rashtriya Lok Dal	(vi)	W. Bengal

- (1) (a) vi, (b) iv, (c) v, (d) iii, (e) i, (f) ii  
 (2) (a) iv, (b) vi, (c) v, (d) iii, (e) i, (f) ii  
 (3) (a) iv, (b) vi, (c) v, (d) ii, (e) i, (f) iii  
 (4) (a) vi, (b) iv, (c) v, (d) iii, (e) i, (f) ii

**99.** Mark the correct sentence

- (1) Non-democratic regimes are able to deal with social differences properly.
- (2) Non-democratic regimes often turn a blind eye to suppress internal social differences.
- (3) Accountability & transparency prevails in the non-democratic regimes.
- (4) Economic equality prevails in non-democratic regimes

**100.** Mark the correct statement

- (1) Legal constitutional changes by themselves can overcome challenges to democracy.
- (2) Some times legal change may not be counter productive.
- (3) Democratic reforms are to be brought about principally through political practice.
- (4) Citizens are unable to bring democratic reforms.

**SAMPLE PAPER (SAT)**
**ANSWER KEY**

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	1	3	2	3	2	1	4	1	4	2	3	4	2	3	1	3	2	2	1	1
Que.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	4	2	4	2	3	4	3	4	3	3	2	2	1	1	2	1	3	2	1	1
Que.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	1	3	2	3	3	4	2	1	4	4	1	3	1	4	2	4	3	3	3	1
Que.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Ans.	2	3	4	2	3	4	1	4	2	2	3	3	1	4	3	1	3	4	4	3
Que.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Ans.	4	1	4	2	2	4	3	3	1	1	2	4	1	4	4	4	2	3	2	3

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*Your Hard Work Leads to Strong Foundation*