

SCHOLASTIC APTITUDE TEST (SAT)_NTSE STAGE-II_19-10-14

- Which one of the following statements is NOT true about evolution ?
 - Evolution leads to generation of diverse forms of life.
 - Time dating and fossil studies help in understanding of evolution.
 - Evolution is not always progressive series of changes that occur in organism.
 - Human beings have not evolved from chimpanzees.
- Which one of the following is known as energy currency of cell ?
 - Adenosine diphosphate
 - Adenosine triphosphate
 - Pyruvate
 - Glucose
- An analysis of soil sample revealed 0.1 mg of a pesticide and 1 mg of the same pesticide was found in grains. However in the adipose tissue of birds the concentration was 2 mg. The reason for this is the phenomenon known as
 - Bio-absorption
 - Bio-translocation
 - Bio-magnification
 - Bio-multiplication
- Diseases that spread by vectors such as mosquitoes are
 - Encephalitis and Malaria
 - Syphilis and AIDS
 - Tuberculosis and sleeping sickness
 - Kala-azar and SARS
- Which one of the following is correct route for passage of sperms ?
 - Testes — scrotum — vasdeferens — urethra — penis
 - Scrotum — testes — urethra — vasdeferens — penis
 - Testes — vasdeferens — urethra — seminal vesicles
 - Testes — vasdeferens — urethra — penis
- Suggest which among the following is NOT a function attributed to endoplasmic reticulum
 - Detoxification of poisons and drugs
 - Digestion / egestion of foreign materials outside the cell
 - Manufacture of fat and lipid molecules
 - Biogenesis of membranes
- In nitrogen cycle, atmospheric nitrogen is fixed by bacteria and converted into ammonia. Ammonia is further converted into other forms of nitrogen . At the end of the cycle it returns to the atmosphere by the process of :
 - Ammonification
 - Nitrification
 - Denitrification
 - Assimilation
- Cell organelles that are involved in the waste disposal system of the cell are :
 - Golgi apparatus.
 - Lysosomes
 - Chromosomes
 - Ribosomes
- Sequence of events which occur in a reflex action are
 - Receptor — motor neuron — CNS — sensory neuron — effector muscle
 - Effector muscle — CNS — sensory nerve — sensory organ
 - CNS — sensory neuron — motor neuron — effector muscle
 - Receptor organ — sensory neuron — CNS — motor neuron — effector muscle
- Movement of food in digestive tract is due to
 - concentration gradient
 - secretions
 - peristalsis
 - villi

11. A pea plant with round green (RRyy) pea seed is crossed another pea plant with wrinkled yellow (rrYY) seeds What would be the nature of seed in the first generation (F₁ generation) ?
1. Round green
 2. Wrinkled green
 3. Wrinkled yellow
 4. Round yellow
12. Some organisms are sensitive to different levels of air pollution and are used as pollution - indicators. Suggest which among the following fits into the category
1. Fungi
 2. Fresh water algae
 3. Bacteria
 4. Lichens
13. A group of laboratory mice having tails are bred together and their progeny studied. The progeny and again bred them for four successive generations. What do you think would be the nature of the new progeny ?
1. All mice born will have tails.
 2. All mice born will have no tails.
 3. The ratio of tail less to tailed mice will be 1 : 3
 4. The ratio of tail less to tailed mice will be 1 : 4
14. Which of the following statements is **NOT** correct ?
1. Tendons are tissues with great strength and flexibility
 2. Bones are connected to each other by tendons
 3. Cartilage smoothens bone surface at joints
 4. Tendons connect muscles to bones
15. Which of the following are the correct examples of matter ?
1. Glass bottle, water and noise
 2. Air, wood and vacuum
 3. Silver foil, hot air and chalk
 4. Sand, oxygen and light flash
16. Two identical beakers labeled as (X) and (Y) contain 100 cm³ of water each at 20°C . To the water in the beaker (X) 100 g of water at 0°C was added and stirred to mix thoroughly. To the beaker (Y) 100g of ice at 0°C was added and stirred till it melts into water. The water in the beaker (Y) will be
1. hotter than water in beaker X
 2. Colder than water in beaker X
 3. heavier than water in beaker X
 4. lighter than water in beaker X
17. At 283 K a saturated solution of solid X can be prepared by dissolving 21.0g of it in 100 g of water. The maximum amount of X which can be dissolved in 100 g of water at 313 K is 62.0 g. An attempt is made to dissolve 50.0 g of X in 100g of water at 313 K.
- A. All the 50.0 g of X will dissolve at 313 K.
 - B. At 313 K 29.0 g of X will remain undissolved
 - C. Solubility of X decreases with increases of temperature
 - D. On cooling the solution of X from 313 K to 283 K more than 21.0 g of X will crystallize out.
- Which of the above statements are correct ?
1. A and B
 2. A and D
 3. B and C
 4. A, C and D
18. Two elements A and B contain 13 and 8 protons respectively. If the number of neutrons in them happen to be 14 and 8 respectively ; the formula unit mass for the compound between A and B unit would be :
1. 43
 2. 75
 3. 102
 4. 112
19. The reaction of burning of carbon in oxygen is represented by the equation:
- $$C_{(s)} + O_{2(g)} \longrightarrow CO_{2(g)} + \text{Heat} + \text{Light}$$
- When 9.0 g of solid carbon is burnt in 16.0 g of oxygen gas, 22.0g of carbon dioxide is produced. The mass of carbon dioxide gas formed on burning of 3.0g of carbon in 32.0 g of oxygen would be (Note : atomic mass of C = 12.0 u, O = 16.0u)
1. 6.60 g
 2. 7.33 g
 3. 8.25 g
 4. 11.00g

20. An atom of an element (X) has its K, L and M shells filled with some electrons. It reacts with sodium metal to form a compound NaX. The number of electrons in the M shell of the atom (X) will be
 1. Eight 2. Seven 3. Two 4. One
21. Oxygen gas reacts with hydrogen to produce water. The reaction is represented by the equation :
 $O_2(g) + H_2(g) \longrightarrow H_2O(g)$
 The above reaction is an example of
 (a) Oxidation of hydrogen (b) Reduction of oxygen
 (c) Reduction of hydrogen (d) Redox reaction
 1. (a), (b) and (c) 2. (b), (c) and (d) 3. (a), (c) and (d) 4. (a), (b) and (d)
22. Match the items of Column I with the items of the Column II

Column I	Column II
a) $NH_4OH + CH_3COOH \rightarrow CH_3COONH_4 + H_2O$	(i) Thermal decomposition
b) $2AgBr \rightarrow 2Ag + Br_2$	(ii) Thermit reaction
c) $ZnCO_3 \rightarrow ZnO + CO_2$	(iii) Photochemical reaction
d) $2Al + Fe_2O_3 \rightarrow 2Fe + Al_2O_3$	(iv) Neutralization reaction

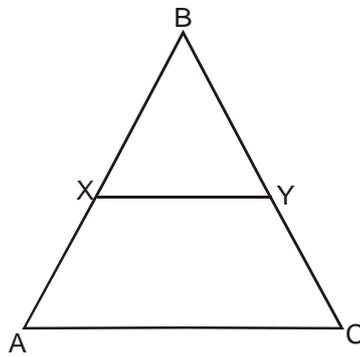
- (1) (d) ii (c) iv (b) i (a) iii (2) (c) i (a) ii (c) iii (d) iv
 (3) (b) ii (d) i (a) iii (c) iv (4) (a) iv (b) iii (c) i (d) ii
23. Which of the following represents the correct order of the acidic strength for equimolar aqueous solutions of HCl, H_2SO_4 , NH_4OH and NaOH
 1. $HCl < NH_4OH < NaOH < H_2SO_4$ 2. $NH_4OH < NaOH < H_2SO_4 < HCl$
 3. $HCl < H_2SO_4 < NH_4OH < NaOH$ 4. $NaOH < NH_4OH < HCl < H_2SO_4$
24. Metals like sodium, potassium calcium and magnesium are extracted by electrolysis of their chlorides in molten state. These metals are not extracted by reduction of their oxides with carbon because
 a) reduction with carbon is very expensive
 b) carbon readily makes alloys with these metals.
 c) carbon has less affinity for oxygen
 d) carbon is a weaker reducing agent than these metals.
 1. (a) and (b) 2. (b) and (c) 3. (c) and (d) 4. (d) and (a)
25. A hydrocarbon has a molecular formula as C_6H_{12} . It does not react with hydrogen to give C_6H_{14} nor does it react with chlorine to give $C_6H_{12}Cl_2$. The hydrocarbon C_6H_{12} is]
 a) A saturated hydrocarbon
 b) An unsaturated hydrocarbon
 c) An open chain hydrocarbon
 d) A cyclo-alkane
 1. (a) and (b) 2. (c) and (d) 3. (d) and (b) 4. (a) and (d)
26. An organic compound is a clear liquid having a molecular formula C_4H_8O . It has an open chain structure. Without any carbon-carbon double bond. The compound can be
 a) an alcohol b) an ester c) an aldehyde d) a ketone
 1. (a) and (b) 2. (c) and (d) 3. (b) and (d) 4. (d) and (a)
27. An element with atomic number 17 is placed in the group 17 of the long form periodic table. Element with atomic number 9 is placed above and with atomic number 35 is placed below it. Element with atomic number 16 is placed left and with atomic number 18 is placed right to it. Which of the following statements are correct .
 a) Valency of the element with atomic number 18 is zero.
 b) Elements with same valency will have atomic number 16,17 and 18.
 c) Valency of elements with atomic number 9,17 and 35 is one.
 d) Element with atomic number 17 is more electronegative than element with atomic numbers 16 and 35
 1. (a), (b) and (c) 2. (a), (c) and (d) 3. (b), (c) and (d) 4. (a), (b) and (d)

28. A car is moving with a constant speed of 70 km/h. Which of the following statements is correct ?
 (1) The acceleration of the car is definitely zero.
 (2) The car has an acceleration only if it is moving along a curved path
 (3) The car may have an acceleration even if it is moving along a straight path
 (4) The car may not have an acceleration even if it is moving along a curved path
29. A box of mass 20 kg is pushed along a rough floor with a velocity 2 m/s and then let go. The box moves 5 m on the floor before coming to rest. What must be the frictional force acting on the box ?
 (1) 4 N (2) 2 N (3) 20 N (4) 8 N
30. Two objects, one 4 times as massive as the other, are approaching each other under their mutual gravitational attraction. When the separation between the objects is 100 km, the acceleration of the lighter object is 1 m/s^2 . When the separation between them is 25 km, the acceleration of the heavier object is
 (1) 1 m/s^2 (2) 2 m/s^2 (3) 8 m/s^2 (4) 4 m/s^2
31. A spring balance measures the weight of an object in air to be 0.1 N. It shows a reading of 0.08 N when the object is completely immersed in water. If the value of acceleration due to gravity is 10 m/s^2 the volume of the object is
 (1) 20 cm^3 (2) 80 cm^3 (3) 200 cm^3 (4) 2 cm^3
32. A force of 10 N is applied on an object of mass 1 kg for 2 s, which was initially at rest. What is the work done on the object by the force?
 (1) 200 J (2) 20 J (3) 16 J (4) 180 J
33. Stethoscope of doctors for finding quality, strength and frequency of human heart beat is based on the principle of
 (1) SONAR (2) Reverberation (3) Multiple reflection (4) Echo
34. A ray of light is incident in medium 1 on a surface that separates medium 1 from medium 2. Let v_1 and v_2 represent the velocity of light in medium 1 and medium 2 respectively. Also let n_{12} and n_{21} represent the refractive index of medium 1 with respect to medium 2 and refractive index of medium 2 with respect to medium 1, respectively. If i and r denote the angle of incidence and angle of refraction, then-
 (1) $\frac{\sin i}{\sin r} = n_{21} = \frac{v_1}{v_2}$ (2) $\frac{\sin i}{\sin r} = n_{21} = \frac{v_2}{v_1}$ (3) $\frac{\sin i}{\sin r} = n_{12} = \frac{v_1}{v_2}$ (4) $\frac{\sin i}{\sin r} = n_{12} = \frac{v_2}{v_1}$
35. A convex lens has a focal length of 0.5 m. It has to be combined with a second lens, so that the combination has a power of 1.5 diopter. Which of the following could be the second lens?
 (1) A concave lens of focal length 2 m.
 (2) Another convex lens of focal length 0.5 m.
 (3) A concave lens of focal length 0.5 m.
 (4) A convex lens of focal length 2 m.
36. Which of the following statement is correct ?
 (1) A person with myopia can see nearby objects clearly
 (2) A person with hypermetropia can see nearby objects clearly
 (3) A person with myopia can see distant objects clearly
 (4) A person with hypermetropia can not see distant objects clearly
37. Consider two conducting plates A and B between which the potential difference is 5 volt, plate A being at a higher potential. A proton and an electron are released at plates A and B respectively. The 2 particles then move towards the opposite plates- the proton to plate B and the electron to plate A. Which one will have a larger velocity when they reach their respective destination plates ?
 (1) Both will have the same velocity.
 (2) The electron will have the larger velocity.
 (3) The proton will have the larger velocity.
 (4) None will be able to reach the destination point.

38. Which one of the statement best describes the nature of the field lines due to a bar magnet?
 (1) Field lines start from the north pole and end on the south pole. Any number of field lines can pass through a point.
 (2) Field lines start from the north pole and end on the south pole. Only one field line passes through a point.
 (3) Field lines are continuous lines passing inside and outside the magnet. Only one field line passes through a point.
 (4) Field lines are continuous lines passing inside and outside the magnet. Any number of field lines can pass through a point.
39. Which of the following statements is correct?
 (1) AC generator generates a higher voltage
 (2) DC generator generates a higher voltage
 (3) AC generator has a permanent magnet whereas a DC generator has an electromagnet
 (4) There is a split-ring commutator in a DC generator but not in an AC generator
40. A star produces its energy through the process of
 (1) Nuclear fusion
 (2) Chemical reaction
 (3) Nuclear fission
 (4) Gravitational attraction between different parts of the star.
41. ϕ is an acute angle such that $\tan\phi = 2/3$ then evaluate

$$\left(\frac{1 + \tan\phi}{\sin\phi + \cos\phi} \right) \cdot \left(\frac{1 - \cot\phi}{\sec\phi + \operatorname{cosec}\phi} \right)$$
 (1) $-\frac{1}{5}$ (B) $-\frac{4}{\sqrt{13}}$ (C) $\frac{1}{5}$ (D) $\frac{4}{\sqrt{13}}$
42. Value of the expression :

$$\frac{1}{\sqrt{11-2\sqrt{30}}} - \frac{3}{\sqrt{7-2\sqrt{10}}} - \frac{4}{\sqrt{8-4\sqrt{3}}}$$
 (1) $\sqrt{30}$ (2) $2\sqrt{10}$ (3) 1 (4) 0
43. The minimum value of the polynomial $p(x) = 3x^2 - 5x + 2$ is
 (1) $-\frac{1}{6}$ (2) $\frac{1}{6}$ (3) $\frac{1}{12}$ (4) $-\frac{1}{12}$
44. For the equation $|x|^2 + |x| - 6 = 0$
 (1) Three are four roots (2) the sum of the roots is -1
 (3) the product of the roots is -4 (4) the product of the roots is -6
45. In $\triangle ABC$, D is a point on BC such that $3BD = BC$. If each side of the triangle is 12 cm, then AD equals
 (1) $4\sqrt{5}$ (2) $4\sqrt{6}$ (3) $4\sqrt{7}$ (4) $4\sqrt{11}$
46. In $\triangle ABC$, \overline{XY} is parallel to \overline{AC} and divides the triangle into the two parts of equal area. Then the $\frac{AX}{AB}$ equals



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

47. P is point in the interior of an equilateral triangle with side a units. If P_1 , P_2 and P_3 are the distance of P from the three sides of the triangle, the $P_1 + P_2 + P_3$

- (1) equals $\frac{2a}{3}$ units
 (2) equals $\frac{a\sqrt{3}}{2}$ units
 (3) is more than a unit
 (4) Cannot be determined unless the location of P is specified

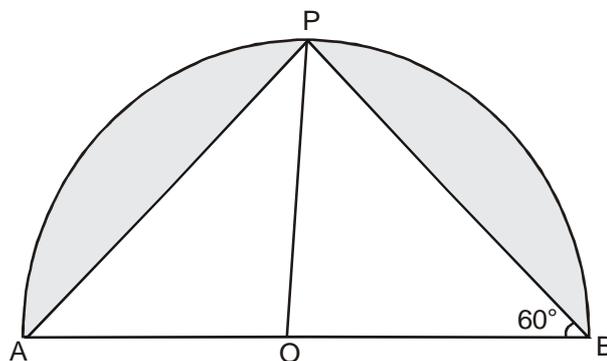
48. In how many ways can given square be cut into two congruent
 (1) Exactly 4 (2) Exactly 8 (3) Exactly 12 (4) More than 12

49. In how many ways can you position 6 into ordered summs ? [For exp, 3 can be positioned into 3 ways as 1 + 2, 2 + 1, 1 + 1 + 1]
 (1) 27 (2) 29 (3) 31 (4) 33

50. The no integers n (<20) for which $n^2 - 3n + 3$ is a perfect square is
 (1) 0 (2) 1 (3) 2 (4) 3

51. For positive x and y, the LCM is 225 and HCF is 15 There.
 (1) is exactly one such pair (2) are exactly two such pair
 (3) are exactly three such pair (4) are exactly four such pair

52. in the figure, a semicircle with centre O is drawn on AB. The ratio of the larger shaded area to the smaller shaded area is.



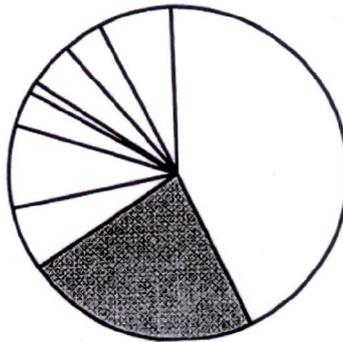
- (1) $\frac{4\pi - 2\sqrt{3}}{2\pi - 2\sqrt{3}}$ (2) $\frac{4\pi - 3\sqrt{3}}{3\pi - 3\sqrt{3}}$ (3) $\frac{4\pi - 3\sqrt{3}}{2\pi - 3\sqrt{3}}$ (4) $\frac{3\pi - 2\sqrt{3}}{2\pi - 2\sqrt{3}}$

53. In ΔABC , angle B is obtuse. The smallest circle which covers the triangle is the
 (1) Circumcircle (2) Circle with AB as diameter
 (3) Circle with BC as diameter (4) Circle with AC as diameter

54. Which of the following can be expressed as the sum of square of two positive integers, as well as three positive integers ?
 (1) 75 (2) 192 (3) 250 (4) 100
55. If P is a point inside the scalene triangle ABC such that $\triangle APB$, $\triangle BPC$ and $\triangle CPA$ have the same area then P must be
 (1) in centre of $\triangle ABC$ (2) circumcentre of $\triangle ABC$
 (3) centroid of $\triangle ABC$ (4) orthocentre of $\triangle ABC$
56. If the line segment joining the midpoint of the consecutive side of quadrilateral ABCD form a rectangle then $\square ABCD$ must be
 (1) rhombus (2) square (3) kite (4) all of the above
57. C_1 and C_2 are two circles in a plane. If N is the total number of common tangents then which of the following is wrong
 (1) $N = 2$ when C_1 and C_2 intersect but do not touch
 (2) $N = 4$ when C_1 and C_2 are disjoint
 (3) when C_1 and C_2 touch then N must be 3
 (4) N can never be more than 4
58. The sides of a triangle are of length 20, 21 and 29 units. The sum of the lengths of altitudes will be
 (1) $\frac{1609}{29}$ (2) 49 units (3) $\frac{1609}{21}$ unit (4) 40 units
59. If a, b, c be the 4th, 7th and 10th term of an AP respectively then the sum of the roots of the equation $ax^2 - 2bx + c = 0$
 (1) $-\frac{b}{a}$ (2) $-\frac{2b}{a}$ (3) $\frac{c+a}{a}$ (3) can not be determined unless some more information is given about the AP
60. PQRS is a smallest square whose vertices are on the opposite sides of the square ABCD. The ratio of the area of square ABCD. The ratio of the area of $\square PQRS$ to $\square ABCD$ is
 (1) 1 : 2 (2) 1 : $\sqrt{2}$ (3) 1 : 3 (4) 2 : 3
61. Consider the following events related to the French Revolution and identify the correct chronological response from the options given thereafter:
 a. Convocation of Estates General
 b. Storming of the Bastille
 c. Peasant revolts in the countryside
 d. Third Estate forms National Assembly
 (1) a, c, d, b (2) d, b, c, a (3) a, d, b, c (4) b, a, c, d
62. Consider the following statements and identify the correct response from the options given thereafter:
 a. The colonies in the Caribbean were important suppliers of tobacco, indigo, sugar and coffee.
 b. The slave trade began in the 15th century.
 c. French port cities like Bordeaux and Nantes owed their economic prosperity to the flourishing slave trade.
 d. Slavery was finally abolished in the French colonies in 1848.
 (1) a, c, d (2) a, b, d (3) b, c, d (4) b, c, a

68. Consider the following statements and identify the correct response from the options given thereafter :
 Statement I : Campaign for dress reforms by women started with the development of the suffrage movement.
 Statement II : Dress reform emphasized differences between men and women and established the status of women as obedient and dutiful.
 (1) Statement I is false & statement II is true.
 (2) Statement I is true & statement II is false
 (3) Both Statement I and Statement II are true and Statement II is the correct explanation of Statement I
 (4) Both Statement I and Statement II are true but Statement II is not the correct explanation of Statement I
69. Consider the following statements and identify the correct response from the options given thereafter:
 Statement I: Schools became an important place for political and cultural battles in Vietnam under the French rule.
 Statement II: Teachers did not blindly follow the curriculum but sometimes modified the text and criticized what was stated.
 (1) Statement I is false and Statement II is true
 (2) Statement I is true and Statement II is false
 (3) Both Statement I and Statement II are true and Statement II is the correct explanation of Statement I
 (4) Both Statement I and Statement II are true but Statement II is not the correct explanation of Statement I
70. Consider the following statements and identify the correct response from the options given thereafter:
 Statement I: In 1921, as the Non-Cooperation movement spread, houses of talukdars were looted and merchants were attacked,
 Statement II: Mahatma Gandhi had declared that tax was not to be paid and land was to be redistributed amongst the poor.
 (1) Statement I is false and Statement II is true
 (2) Statement I is true and Statement II is false
 (3) Both Statement I and Statement II are true and Statement II is the correct explanation of Statement I
 (4) Both Statement I and Statement II are true but Statement II is not the correct explanation of Statement I
71. Consider the following statements and identify the correct response from the options given thereafter:
 Statement I: In Victorian Britain, the upper classes - the aristocrats and the bourgeoisie - preferred things produced by machine.
 Statement II: Machine goods were mass produced and were easily available.
 (1) Statement I is false and Statement II is true
 (2) Statement I is true and Statement II is false
 (3) Both Statement I and Statement II are true and Statement II is the correct explanation of Statement I
 (4) Both Statement I and Statement II are true but Statement II is not the correct explanation of Statement I
72. Consider the following statements and identify the correct response from the options given thereafter:
 Statement I: In the 19th century, London was a colossal city.
 Statement II: London had many large factories.
 (1) Statement I is false and Statement II is true
 (2) Statement I is true and Statement II is false
 (3) Both Statement I and Statement II are true and Statement II is the correct explanation of Statement I
 (4) Both Statement I and Statement II are true but Statement II is not the correct explanation of Statement I

73. Consider the statement given below and select the correct explanation from the responses given thereafter:
People of depressed classes found it difficult to find housing in Bombay during the late nineteenth century.
- (1) Bombay had a mere 9.5 square yards average space per person.
 - (2) Wages of depressed classes were usually less than that of others.
 - (3) Most people of depressed classes were kept out of chawls.
 - (4) People belonging to the depressed classes had fixed space allotted per family.
74. Consider the statement given below and select the correct explanation from the responses given thereafter:
In 1878 the Vernacular Press Act was passed.
- (1) Englishmen criticized the printed matter objectionable to the Government.
 - (2) After the Revolt of 1857 the British wanted to clamp down the Indian press.
 - (3) British rule needed to be celebrated by journals and paper .
 - (4) ationalist newspapers grew in numbers and needed to be c.ontrolled.
75. By the 18th centuryt which of the following commodities were produced on large plantation in America by lave labour and exported to other countries.
- (1) Grains such as wheat and barley
 - (2) Tropical fruits such as bananas and oranges
 - (3) Animal products such as wool and beef
 - (4) Cash crops such as sugar and cotton
76. My stems are succulent, my leaves are mostly thick
In which category of the following vegetation type I am largely found?
- (1) Tropical deciduous forest
 - (2) Montane forest
 - (3) Tropical thorn forest and scrobs
 - (4) Mangrove forest
77. The following diagram shows the general land use category in India. Identify the shaded category .



- (1) Net sown area
 - (2) Forest
 - (3) Current Fallow
 - (4) Barren and waste land
78. Assertion (A): Since 1981. growth rate of population in India has started declining gradually
Reason (R): Birth rate is declining Select the correct option from the given alternatives
1. Both A and R are true but R is not the correct explanation of A.
 2. Both A and R are false.
 3. A is false and R is true.
 4. Both A and R are true and R is the correct explanation of A.

83. The process of manufacturing of cotton garment is depicted in the following flow diagram. Identify the correct sequence.



- a. Dyeing and finishing
 b. Fiber production
 c. Garment manufacture
 d. Weaving

(1) 1b, 2a, 3c, 4d (2) 1b, 2d, 3c, 4a (3) 1b, 2d, 3a, 4c (4) 1b, 2a, 3d, 4c

84. Match the fresh water lakes on the map of India (I, II, III, IV) with their respective names.

- A. Bhimtal
 B. Loktak
 C. Barapani
 D. Dallake

(1) A-III, B-II, C-I, D-IV (2) A-IV, B-III, C-II, D-I (3) A-III, B-I, C-II, D-IV (4) A-IV, B-III, C-I, D-II

85. A major line of latitude that passes through Mizoram also passes through which one of the following states _____.

(1) Nagaland (2) Odisha (3) Bihar (4) Jharkhand

86. Observe the following graph of a particular place. It is situated at an altitude of 224 meters above Mean Sea Level and at latitude 26°18'N

Identify the type of natural vegetation most likely to be found in this place

- (1) Montane forest (2) Mangrove forest
 (3) Tropical thorn forest (4) Tropical evergreen forest

87. Identify the state from given names which has all the following characteristics

- A. Its annual rainfall is 200-400 cm
 B. Most of the area is covered under alluvial soil
 C. Rice is the predominant crop of this state

(1) Punjab (2) Assam (3) Odisha (4) TamilNadu

88. With the help of given map identify the dates of advancing Monsoon in India.

(1) I- 1 June -10 June ; III - 15 July (2) I-1 June; II- 10 June ; III - 1 July
 (3) I- 15 June; II- 15 July; III- 15 August (4) I- 15 July; II- 10 June; III - 1 June

89. Match the places with altitude

Column I

(Altitude in meters above Mean Sea Level)

- I. 1461
 II. 6
 III. 224
 IV. 312

Column II

(Place)

- A. Nagpur
 B. Shillong
 C. Jodhpur
 D. Kolkata

(1) I-D, II-A, III-C, IV-B (2) I-C, II-A, III-B, IV-D (3) I-B, II-D, III-C, IV-A (4) I-B, II-A, III-C, IV-D

90. What is the local time in Tokyo situated at 139°45' East longitude, when the President of India was hoisting the Indian National Flag in the presence of Japanese Prime Minister at 10 a.m. in New Delhi? The viewer in Japan were watching live telecast of this event.

(1) 6.11 a.m. (2) 1.49 a.m. (3) 2.49 a.m. (4) 1.49 p.m.

99. How membership in a Self Help Group helps a poor rural woman?
- (1) Facilitates her how to help herself in daily work.
 - (2) To work together in factones and get regular employment
 - (3) To overcome the problem of lack of collateral as borrowing is based on the group.
 - (4) To get free money from the government.
100. Though consumers in India has the right to information about the product he/she purchases, which of the following aspects of a product, the producer need not inform the consumer ?
- (1) Dat of production
 - (2) Date of expiry
 - (3) Addres of the producer
 - (4) The production proces