

ODISHA NTSE Stage I_2020-21

SAT (SET – B)

1. Which of the following types of soils have mostly come into existence due to weathering of ancient crystalline and metamorphic rocks?

(A) Regular and Black soils (B) Red and yellow soils
(C) Arid and Semi-arid soils (D) Peaty and Marshy soils

2. Match the major types of vegetation in List I with their important trees in List II.

List I

(p) Mangrove Forests
(q) Montane Forests
(r) Tropical Thorn Forests
(s) Tropical Deciduous Forests

(A) (p) – (i), (q) – (iii), (r) – (iv), (s) – (ii)

(C) (p) – (iv), (q) – (iii), (r) – (ii), (s) – (i)

List II

(i) Teak
(ii) Babool (Acacia)
(iii) Pine
(iv) Sundari

(B) (p) – (ii), (q) – (iii), (r) – (iv), (s) – (i)

(D) (p) – (iii), (q) – (ii), (r) – (iv), (s) – (i)

3. The experimental projects for generating which type of energy can be found in Puga valley in Ladakh and Manikaran in Himachal Pradesh?

(A) Solar energy (B) Wind energy (C) Atomic energy (D) Geothermal energy

4. Match the rivers in List I with the state of their origin in List II.

List I

(p) Mahanadi
(q) Godavari
(r) Kaveri
(s) Ganga

(A) (p) – (ii), (q) – (iii), (r) – (iv), (s) – (i)

(C) (p) – (i), (q) – (iii), (r) – (iv), (s) – (ii)

List II

(i) Uttarakhand
(ii) Chhattisgarh
(iii) Maharashtra
(iv) Karnataka

(B) (p) – (iii), (q) – (ii), (r) – (iv), (s) – (i)

(D) (p) – (iv), (q) – (i), (r) – (ii), (s) – (iii)

5. Chambal is a tributary of which of the following rivers?

(A) The Narmada (B) The Yamuna (C) The Godavari (D) The Tapi

6. What is the full form of ITCZ?

(A) Indian Tropical Convergence Zone (B) Inter Tropical Climate Zone
(C) Inter Tropical convergence Zone (D) Inter Temperate Convergence Zone

7. The cultivation of which plantation crop was initially introduced on the Baba Budan hills in Karnataka?

(A) Coffee (B) Tea (C) Rubber (D) Sugarcane

8. Which of the following options is the youngest mountain range of India?

(A) Himalayan mountain range (B) Aravalli mountain range
(C) Vindhya mountain range (D) Satpura mountain range

9. Which mine is found in Khetri, situated at the foothills of the Aravalli Range, Rajasthan?

(A) Bauxite (B) Lignite (C) Coal (D) Copper

10. What is the criteria to consider a person as a literate according to census of India 2001?

(A) 6 years old and above, and can read and write with understanding in any language
(B) 7 years old and above, and can read and write with understanding in any language
(C) 5 years old and above, and can read and write with understanding in any language
(D) 9 years old and above, and can read and write with understanding in any language

11. Which of the following Islands is the largest inhabited riverine island located in the Himalayan river system of India?
(A) Majuli Island (B) Teressa Island (C) Hope Island (D) Umananda Island
12. Which of the following is the CORRECT classification of resources on the basis of origin?
(A) Biotic resources and Abiotic resources
(B) Renewable and Non-renewable resources
(C) National resources and International resources
(D) Individual resources and Community owned resources
13. Who of the following became Prime Minister of Italy in 1922 and gave rise to fascism?
(A) Benito Mussolini (B) Victor Emmanuel (C) Dino Grandi (D) Marie Jose
14. Who among the following leaders represented Great Britain in the Treaty of Versailles that was signed at Paris and brought World War I to an end?
(A) Georges Clemenceau (B) Woodrow Wilson
(C) Vittorio Emanuele Orlando (D) David Lloyd George
15. Identify the first satellite completely designed and fabricated in India and launched by a Soviet Kosmos-3M rocket in 1975.
(A) Rohini (B) Bhaskara-I (C) INSAT-1A (D) Aryabhata
16. Which of the following options is INCORRECT with reference to the important aspects of the process of Urbanisation in India?
(A) Economic aspects (B) Socio-cultural aspects
(C) The demographic and spatial aspects (D) Religious aspects
17. Which of the following options listed amongst UNESCO World Heritage sites is known for its Kalinga Architecture?
(A) Black Pagoda (Sun Temple), Konark (B) Mahabodhi Temple, Bodh Gaya
(C) Jantar Matar, Jaipur (D) Rani ki Vav, Patan
18. Which of the following countries was formally granted independence in 1946 after being ruled by United States?
(A) Philippines (B) Sri Lanka (C) Egypt (D) China
19. Who of the following was arrested at Chandol for having addressed a meeting during the civil disobedience movement in Odisha?
(A) Harekrushna Mahatab (B) Surendranath Das
(C) Gopabandhu Choudhury (D) Acharya Harihar
20. Laxman Naik who was arrested from Koraput district of Odisha is associated with which of the following movements of freedom Struggle?
(A) Salt Satyagraha (B) Quit India Movement
(C) Khilafat Movement (D) Non-Cooperation Movement
21. Which eminent personality from Odisha was appointed as a member of the Royal Agricultural Commission in 1927?
(A) Karmaveer Gourlshankar Ray (B) Kashinath Das
(C) Maharaja Krushan Chandra (D) Sashi Bhusan Rath

22. The famous Treaty of Tordesillas was signed between which of the following two European powers aimed at setting conflicts over lands newly discovered or explored by Christopher Columbus and other late 15th century voyagers?
 (A) British and French (B) Portugal and Spain (C) Dutch and Denmark (D) Austrian and Germans
23. North Atlantic Treaty Organization (NATO) came into existence to provide collective security against the threat posed by which of the following power blocks?
 (A) West Germany (B) Imperial China (C) Arab League (D) Soviet Union
24. The rule Qing Dynasty ended in 1911 in which of the following Asian countries?
 (A) Thailand (B) Vietnam (C) North Korea (D) China
25. Gymnosperms is a term made from two Greek words: Gymno and Sperma which means
 (A) whip-like, flagella (B) hair-like, cilia (C) covered, seed (D) naked, seed
26. Niacin is an important nutrient found in the fish which is an animal product. It is a form of
 (A) vitamin B3 (B) vitamin B2 (C) vitamin B1 (D) vitamin B12
27. Match the following three essential components of environment given in List I with their meaning given in List II.
- | List I | List II |
|----------------------------------|--|
| (a) Reduce | (i) plastic bottles can be used for storing things in the kitchen |
| (b) Recycle | (ii) switching off unnecessary lights and fans |
| (c) Reuse | (iii) segregation of wet and dry waste |
| | (iv) buying individual plastic bottles of water every time after use |
| (A) a – (ii), b – (iii), c – (i) | (B) a – (i), b – (ii), c – (iii) |
| (C) a – (iv), b – (i), c – (iii) | (D) a – (iii), b – (iv), c – (i) |
28. Two healthy potted plants A and B were taken and kept in dark room for 3 days, they were placed in separate glass plates and a watch-glass containing potassium hydroxide was placed by the side of Plant A. Both the plants were covered with separate bell jars, and Vaseline has been used to seat the bottom of the jars and were set-up as air tight. Both the plants were kept in sunlight for 2 hours. Leaves were plucked from each plant and checked for the presence of starch. Due to the non-availability of which of the following components, photosynthesis did not occur in the plant A?
 (A) Water (B) Carbon dioxide (C) Chlorophyll (D) Starch
29. The endoskeleton of various animals are formed from it. It is incorporated into life forms through the basic process of photosynthesis which is performed in the presence of Sunlight by all life-forms that contain chlorophyll. This molecule's cycle process coverts itself from the atmosphere or dissolved in water into glucose molecules. Name the molecule.
 (A) Nitrogen (B) Carbon (C) Water (D) Nitrate
30. Diverse organism use different ways to break-down glucose completely into carbon dioxide and water. Sometimes when there is a lack of oxygen in our muscle cells, another pathway for the break-down of pyruvate is taken. Here the pyruvate is converted into lactic acid which is a
 (A) six-carbon molecule (B) two-carbon molecule
 (C) three-carbon molecule (D) five-carbon molecule
31. Read the following statements regarding function of Golgi apparatus and choose the CORRECT option:
 (A) It plays a central role in cellular reproduction, the process by which a single cell divides and forms two new cells
 (B) It contains ribosome attached to its surface which are sites for protein manufacture
 (C) It helps in storage, modification and packaging of products in vesicles
 (D) It helps to keep the cell clean by digesting any foreign material as well as worn-out cell organelles

32. They are found to be very sensitive to the levels of contaminants like Sulphur dioxide in the air. They are commonly found growing on the bark of trees as a thin greenish-white crust. They are considered to be a useful bioindicator for air pollution. Name the organism

- (A) Mycorrhiza (B) Lichens (C) Amoeba (D) Euglena

33. Which of the following gas makes up 78% of our atmosphere and it is also a part of many molecules essential to life like proteins, nucleic acids and some vitamins?

- (A) Nitrogen (B) Carbon (C) Oxygen (D) Argon

34. Match the following given in List I with their respective discovery given in List II.

List I

- (a) Robert Hooke
(b) Antonie van Leeuwenhoek
(c) Robert Brown
(d) J.E. Purkinje

List II

- (i) Discovered the free-living cells in pond water
(ii) Observed the cells in a cork slice with the help of microscope
(iii) Discovered the nucleus in the cell
(iv) Coined the term protoplasm for the fluid substance of the cell

- (A) a – (ii), b – (i), c – (iii), d – (iv)
(C) a – (i), b – (iii), c – (ii), d – (iv)

- (B) a – (iii), b – (i), c – (iv), d – (ii)
(D) a – (iv), b – (ii), c – (iii), d – (i)

35. Choose the alternative that correctly matches the species in Group 1 with their features in Group 2.

Group 1

- (a) Hydra
(b) Corals
(c) Spongilla
(d) Roundworm

Group 2

- (i) Species live in colonies
(ii) Species have a solitary-like span
(iii) Organism with holes
(iv) Species found in the intestine

- (A) a – (iii), b – (i), c – (iv), d – (ii)
(C) a – (ii), b – (i), c – (iii), d – (iv)

- (B) a – (i), b – (iii), c – (ii), d – (iv)
(D) a – (iv), b – (ii), c – (iii), d – (i)

36. Read the following statements regarding the function of Lymph in transportation within the human body and choose the CORRECT option:

- (A) It carries the blood away from the heart to various organs of the body and it ensures that the blood flows only in one direction
(B) It is divided into smaller vessels to bring blood in contact with all the individual cells
(C) It circulates around the body and helps to clot the blood during the time of injury
(D) It carries digested and absorbed fat from intestine and drains excess fluid from extracellular space back into the blood

37. It does not have a mouth for ingestion of food. It ingests the food by encircling it by forming pseudopodia. When the food is completely encircled, the food is engulfed in the form of a bag called food vacuole. The excess food absorbed is stored in the form of glycogen and lipids. The undigested food gets collected in the food vacuole and thrown out of the body by rupturing cell membrane. Identify the organism.

- (A) Chlamydomonas (B) Amoeba (C) Hydra (D) Sea anemone

38. Plants also require nutrients for growth and development. Which of the following nutrients are supplied to plants by air and water?

- (A) Nitrogen (B) Argon (C) Helium (D) Oxygen

39. The mean of five numbers is 30. A sixth number is added. The new mean of six numbers is found to be 31. The sixth number is:

- (A) 34 (B) 32 (C) 36 (D) 30

40. A bag contains red, white and green balls in the ratio 3 : 4 : 5. If the bag contains 80 green balls, then the total number of balls in the bag is

- (A) 145 (B) 156 (C) 192 (D) 187

41. If the area of an equilateral triangle is $16\sqrt{3}$ sq. units, then the length of each side of the triangle is
 (A) 7 units (B) 8 units (C) 9 units (D) 10 units
42. If a vertical pole of height 9 m casts a shadow $3\sqrt{3}$ m long on the ground, then the angle of elevation of the Sun is
 (A) 30° (B) 45° (C) 60° (D) 90°
43. Area of the rhombus whose length of the diagonals are 9 cms and 12 cms respectively is
 (A) 45 sq. cms (B) 52 sq. cms (C) 54 sq. cms (D) 64 sq. cms
44. If the complement of an angle is $\frac{1}{5}$ times of its supplement, then the angle is
 (A) 24.5 degrees (B) 67.5 degrees (C) 72.5 degrees (D) 86.5 degrees
45. If the 8th term of an arithmetic progression is 51 and 5th term is 33, then the sum of the first 10 terms of the arithmetic progression is
 (A) 312 (B) 320 (C) 345 (D) 360
46. The value of the expression $[\sec(75^\circ - \theta) - \operatorname{cosec}(15^\circ + \theta) - \tan(55^\circ - \theta) + \cot(35^\circ + \theta)]$ is equal to
 (A) $\frac{3}{2}$ (B) 0 (C) -1 (D) 1
47. A pair of linear equations in two variables can be represented by two straight lines. In case of which pair of equations do the straight lines, coincide?
 (A) $2x + 3y - 9 = 0$ and $4x + 6y - 18 = 0$ (B) $5x - 4y + 8 = 0$ and $7x + 6y - 9 = 0$
 (C) $2x - y + 9 = 0$ and $6x - 3y + 10 = 0$ (D) $2x - 3y = 7$ and $3x + 2y = 5$
48. If a and b are rational numbers and $\frac{(3+\sqrt{5})}{(3-\sqrt{5})} = a + b\sqrt{5}$, then the values of a and b are
 (A) $a = \frac{5}{2}$ and $b = \frac{3}{2}$ (B) $a = \frac{7}{2}$ and $b = \frac{3}{2}$
 (C) $a = \frac{1}{2}$ and $b = \frac{5}{2}$ (D) $a = \frac{3}{2}$ and $b = \frac{1}{2}$
49. Consider the following statements:
 (i) If the angles subtended by the chords of a circle at the centre are equal, then the chords are equal
 (ii) If two chords of a circle are equal, then their corresponding arcs are congruent.
 Which of the following is CORRECT?
 (A) Both (i) and (ii) are TRUE (B) (i) is TRUE and (ii) is FALSE
 (C) (i) is FALSE and (ii) is TRUE (D) Both (i) and (ii) are FALSE
50. Which are the 2 factors that we get when the below expression is factorized?
 $4(3a-2)^2 - 3(3a-2)(a+5) - 7(a+5)^2$
 (A) $(a+3)$ and $(19a-3)$ (B) $(4a+8)$ and $(19a+43)$
 (C) $(a+3)$ and $(a-43)$ (D) $(4a+3)$ and $(5a-43)$
51. The perimeter of a rectangle is 90 cms and its breadth is 15 cms. What is the area of the rectangle?
 (A) 450 sq. cms (B) 400 sq. cms (C) 390 sq. cms (D) 320 sq. cms
52. The quadratic equation $2x^2 - \sqrt{7}x + 1 = 0$ has
 (A) more than two real roots (B) no real root
 (C) two equal real roots (D) two distinct real roots

53. Two triangles $\triangle ABC$ and $\triangle DEF$ are similar. Their corresponding angles are:
 $\angle A = \angle D$
 $\angle B = \angle E$
 $\angle C = \angle F$
 The similarity between $\triangle ABC$ and $\triangle DEF$ can be symbolically expressed as
 (A) $\triangle CAB \sim \triangle FDE$ (B) $\triangle CAB \sim \triangle EFD$ (C) $\triangle BCA \sim \triangle EDF$ (D) $\triangle BCA \sim \triangle DFE$
54. The elements of a set X are {4, 6, 2, 8, 7, 12, 15, 10}. If the average of the elements of the set X is 8, then the median of the set X is
 (A) 7.5 (B) 8 (C) 8.5 (D) 9
55. If the distance between the points $(-1, -2)$ and $(2, x)$ is 5, then one of the values of x is
 (A) 3 (B) -2 (C) 6 (D) -6
56. In a school, all the 310 students have to study atleast one language among English, Hindi and German. 200 students study English, 220 students study Hindi and 180 students study German. 125 students study English and Hindi, 140 students study Hindi and German, 100 students study English and German and 75 students study all the three subjects. How many students study only one language?
 (A) 95 (B) 85 (C) 80 (D) 75
57. What is the value of the expression given below?
 (A) $2^{-9\pi}$ (B) $2^{-8\pi}$ (C) $2^{-7\pi}$ (D) $3^{-7\pi}$
58. In a triangle ABC, if $BC = AC$ and angle B = 72 degrees, then the measure of the angle C is equal to
 (A) 72 degrees (B) 15 degrees (C) 42 degrees (D) 36 degrees
59. From a height h, a body has a free fall to the surface of the earth. After it has fallen a height h/2, the body possesses
 (A) Both potential energy and kinetic energy, where potential energy is greater than kinetic energy
 (B) Equal amounts of potential energy and kinetic energy
 (C) Only kinetic energy
 (D) Both potential energy and kinetic energy, where kinetic energy is greater than potential energy
60. An elderly woman can clearly watch birds flying at a large distance but is unable to read the newspaper. Which of the following statements is correct?
 (A) The near point of her eyes has come closer to her
 (B) The near point of her eyes has receded away
 (C) The far point of her eyes has come closer to her
 (D) The far point of her eyes has receded away
61. The incident light is light from a point source. Which of the following can produce a parallel beam of light?
 (A) Concave mirror only (B) Two plane mirrors placed at 90° to each other
 (C) Convex lens only (D) Both concave mirror and convex lens
62. A compound known as ammonium phosphate has the chemical formula
 (A) $(\text{NH}_4)_3\text{PO}_4$ (B) $(\text{NH}_3)_3\text{PO}_4$ (C) $(\text{NH}_4)_3\text{PO}_3$ (D) $(\text{NH}_3)_3\text{PO}_3$
63. In a solar cooker, the phenomenon of greenhouse effect raises the temperature inside the solar cooker much higher than the temperature of the surroundings. Greenhouse effect in sola cookers is caused by
 (A) A double glass lid covering the inner box (B) A reflective mirror fitted to the outer lid
 (C) The outer box cover of the solar cooker (D) The inner cooking box painted in black

64. At room temperature, sucrose ($C_{12}H_{22}O_{11}$) has the appearance of a white solid powder. How many oxygen atoms are present in 17.1 grams of sucrose?
 (A) 6.022×10^{22} (B) 3.31×10^{22} (C) 3.31×10^{23} (D) 6.022×10^{23}
65. Choose the alternative that gives the correct answer. The particles of the following type of mixture scatter a beam of light passing through it and make its path visible.
 (i) Solution (ii) Suspension (iii) Colloidal solution
 (A) Both (i) and (iii) are correct (B) Only (ii) is correct
 (C) Only (iii) is correct (D) Both (ii) and (iii) are correct
66. Two chemical species A and B chemically combine to form a product C
 So, $A + B \rightarrow C$
 A and B cannot be broken down into simpler substances by simple chemical reactions. Choose the alternative in which all statements are correct?
 (i) A and B are compounds (ii) C is a compound
 (iii) A and B are elements (iv) C has a fixed composition
 (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv) (C) (i), (iii) and (iv) (D) (i), (ii) and (iv)
67. With reference to the magnetic field due to a current in a solenoid, consider the following statements:
 (i) The relative strength of the magnetic field is shown by how far away the magnetic field lines are. In other words, as the magnetic field becomes stronger, the distance between any two adjacent field lines increases.
 (ii) The strong magnetic field produced inside the solenoid can be used to magnetize a piece of magnetic material like soft iron, when placed inside the coil.
 Which of the following is CORRECT?
 (A) Both (i) and (ii) are TRUE (B) (i) is TRUE and (ii) is FALSE
 (C) (i) is FALSE and (ii) is TRUE (D) Both (i) and (ii) are FALSE
68. A train starts from rest and moves with uniform acceleration. It attains a velocity of 72 kmh^{-1} in 6 minutes. What is the acceleration of the train?
 (A) $1/12 \text{ ms}^{-1}$ (B) $1/15 \text{ ms}^{-1}$ (C) $1/18 \text{ ms}^{-1}$ (D) $1/21 \text{ ms}^{-1}$
69. Which of the following is a displacement reaction?
 (i) $\text{MgO} + \text{H}_2\text{O} \longrightarrow \text{Mg}(\text{OH})_2$ (ii) On heating, $2\text{FeSO}_4 \longrightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2 + \text{SO}_3$
 (iii) $4\text{Al} + 3\text{O}_2 \longrightarrow 2\text{Al}_2\text{SO}_3$ (iv) $\text{Zn} + \text{FeSO}_4 \longrightarrow \text{ZnSO}_4 + \text{Fe}$
 (A) (i) (B) (ii) (C) (iii) (D) (iv)
70. From the third law of motion, we can conclude that action and reaction always
 (A) Have the same magnitude and the same direction
 (B) Act simultaneously on the same body
 (C) Act simultaneously on different bodies in opposite directions
 (D) Act simultaneously on different bodies normal (that is, at 90° angle) to each other
71. A person cannot see distinctly objects kept beyond 4m. For corresponding this defect of vision, he needs a lens of power
 (A) -0.25 D (B) $+0.25 \text{ D}$ (C) $+0.5 \text{ D}$ (D) -0.5 D
72. Consider the following statements:
 (i) Most carbon compounds are poor conductors of electricity
 (ii) Carbon compounds usually have strong forces of attraction between their molecules.
 Which of the following is CORRECT?
 (A) Both (i) and (ii) are TRUE (B) (i) is TRUE and (ii) is FALSE
 (C) (i) is FALSE and (ii) is TRUE (D) Both (i) and (ii) are FALSE

73. Water is stored in a dam at a height above the ground. This stored water possesses
 (A) Potential energy (B) Electrical energy (C) Heat energy (D) Kinetic energy
74. For testing pH of the soil, a student mixed a sample of soil thoroughly with distilled water and allowed the container to sit undisturbed. Blue litmus turned red on dipping in the soil-water mixture. Which of the following would change the colour of the red litmus to blue?
 (A) Common salt (B) Vinegar (C) Baking powder (D) Hydrochloric acid
75. A 2 cm long awl pin is fixed vertically in front of a vertically placed concave mirror. A 1 cm long image of the awl pin is formed at a distance of 30 cm in front of the mirror. The focal length of the concave mirror is
 (A) – 60 cm (B) – 45 cm (C) – 30 cm (D) – 20 cm
76. Atomic number of Sulphur is 16. Mass number of Sulphur is 32. The number of electrons in M-shell of Sulphur is
 (A) 5 (B) 6 (C) 7 (D) 8
77. Before the main shock waves of an earthquake start, the first sound waves produced by an earthquake are of
 (A) Either low frequency infrasound or high frequency ultrasound depending on the nature of earthquake
 (B) Audible range of frequency for human beings
 (C) Low frequency infrasound only
 (D) High frequency ultrasound only
78. Barium chloride on reacting with ammonium sulphate forms barium sulphate and ammonium chloride. This chemical reaction is an example of
 (A) Double displacement reaction (B) Decomposition reaction
 (C) Displacement reaction (D) Combination reaction
79. What is the value of the minimum resistance which can be made by connecting four resistors each of $1/4\Omega$?
 (A) $1/4\Omega$ (B) $1/8\Omega$ (C) 1Ω (D) $1/16\Omega$
80. The reducing of the sun at sunrise and at sunset as viewed from the Earth's surface is due to
 (A) Dispersion of light (B) Atmospheric refraction of light
 (C) Scattering of light (D) Total internal reflection of light
81. From the Earth's surface, a stone is thrown vertically upwards with a velocity of 4 ms^{-1} . During its motion, a downward acceleration due to gravity of 10 ms^{-2} acts on the stone. What will be the height attained by the stone?
 (A) 1.25 m (B) 1 m (C) 0.96 m (D) 0.8 m
82. A person speaking with a loud voice starts to talk softly. Which characteristic of the sound wave did the person reduce?
 (A) Wavelength (B) Amplitude (C) Time period (D) Frequency
83. Two conducting wires of the same material and of equal lengths and equal diameters are taken. They are first connected in series with a battery in circuit A. Next, they are connected in parallel with the same battery in circuit B. What is the ratio between the current through circuit A (in series) to the current through circuit B (in parallel)?
 (A) 1 : 2 (B) 4 : 1 (C) 1 : 4 (D) 2 : 1

84. The laws of reflection hold good for
(A) Concave mirror only (B) Plane mirror only
(C) Convex mirror only (D) Concave mirror, plane mirror and convex mirror
85. Which among the following is NOT a power of the Election Commission?
(A) Supervises the nomination of candidate (B) Appointment of ministers
(C) Preparation of the electoral rolls (D) Allotment of symbols
86. Who among the following Prime Ministers of India convened the National Integration Conference in 1961?
(A) V.P Singh (B) Lal bahadur Shastri (C) Jawaharlal Nehru (D) V.V Giri
87. Treaty of Peace and Friendship between the Government of India and Government of Nepal, under which the Nepalese citizens can avail facilities and opportunities at par with Indian citizens was signed in the year:
(A) 1949 (B) 1950 (C) 1956 (D) 1960
88. Which of the following options can be defined as the process of rapid integration or interconnection between countries due to which more and more goods and services, investments and technology are moving between countries?
(A) Globalization (B) Industrialization (C) Colonization (D) Decentralization
89. Which of the following principal organs of the United Nations is NOT headquartered at New York?
(A) The General Assembly (B) The Security Council
(C) The Economic and Social Council (D) The International Court of Justice
90. Who appoints the Chief Election Commissioner and other Election Commissioners in India?
(A) The Governor (B) The Chief Justice of India
(C) The Prime Minister (D) The President
91. Which of the following Articles deals with the fundamental right, Right to Education?
(A) Article 16 (B) Article 20A (C) Article 21A (D) Article 25
92. As per the TRI act, which of the following is the CORRECT option with reference to the time period mandated for supply of information to an applicant in normal course?
(A) Within 45 days from the receipt of application by the public authority
(B) Within 7 days from the receipt of application by the public authority
(C) Within 15 days from the receipt of application by the public authority
(D) Within 30 days from the receipt of application by the public authority
93. Which of the following options listed below can be categorized as the Modern Farming Methods that help in increasing agricultural production?
(i) Use of High Yielding Varieties (HVs) of seeds.
(ii) Use of electrical pump sets, canal and dam water for irrigation
(iii) use of chemical fertilizers and pesticides
(iv) use of rain water for irrigation
(v) Use of cow-dung and other natural manure as fertilizers
(vi) Use of farm machinery like tractors and threshers
(A) Only (i), (ii), (iii), (iv) (B) Only (ii), (iii), (iv), (vi)
(C) Only (iii), (iv), (v), (vi) (D) Only (i), (ii), (iii), (vi)

94. Match the following:

List I

- (i) Primary Sector
- (ii) Secondary Sector
- (iii) Tertiary Sector

List II

- (a) It includes activities that generate services rather than goods
- (b) It includes economic activities that produce goods by exploiting natural resources.
- (c) It covers all the activities directly related to scientific research and innovation
- (d) it covers activities in which natural products are changed into other forms through some process of manufacturing

(A) (i) – a, (ii) – (c), (iii) – (d)

(B) (i) – b, (ii) – d, (iii) – a

(C) (i) – d, (ii) – c, (iii) – b

(D) (i) – c, (ii) – b, (iii) – a

95. Read the following statements and choose CORRECT answer.

- (i) The concept of Poverty line is commonly used to identify poor and is estimated periodically (normally every five years) by conducting sample surveys which are carried out by the National Sample Survey Organization (NSSO) in India.
- (ii) International organizations like the World Bank use a uniform standard for the poverty line which is minimum availability of the equivalent of \$1.90 per person per day, for making comparisons between developing countries.

(A) (i) is true and (ii) is false

(B) (i) is true and (ii) is true

(C) (i) is false and (ii) is true

(D) (i) is false and (ii) is false

96. Given below are some of the terms related to Food Security System in India. Identify which one of the following terms is INCORRECTLY described.

- (A) Public Distribution System – It is a system in which food procured by the FCI is distributed through government regulated ration shops among the poorer section of the society
- (B) Buffer Stock – It is the stock of food grains, namely wheat and rice, procured by the government through the Food Corporation of India (FCI)
- (C) Fair Price Shop – It is a Ration shop that keeps stock of food grains, sugar and kerosene and these items are sold to people at a price lower than the market price
- (D) Issue Price – It is the price declared by the government every year before the sowing season to provide incentives to farmers for raising the production of the crops

97. Read the following statements and choose the CORRECT option.

- (i) Disguised unemployment occurs when the number of workers engaged in the job is much more than actually required to accomplish it.
- (ii) Disguised unemployment is rampant in Indian agriculture owing to joint family system and lack of vocational avenues outside agriculture.
- (iii) Disguised unemployment occurs when people are not able to find employment for some part of the year and is prevalent only in agriculture sector.
- (iv) Disguised unemployment is common in all wage earners and is a situation wherein marginal productivity of labour is always greater than unity.

(A) (i) – true, (ii) – true, (iii) – false, (iv) – true

(B) (i) – true, (ii) – false, (iii) – true, (iv) – false

(C) (i) – true, (ii) – true, (iii) – false, (iv) – false

(D) (i) – false, (ii) – true, (iii) – false, (iv) – true

98. Match the following:

List I

- (i) Revamped Public Distribution System (RPDS)
- (ii) Antyodaya Anna Yojana (AAY)
- (iii) Targeted Public Distribution System (TPDS)
- (iv) Annapurna Scheme (APS)

- (A) (i) – a, (ii) – d, (iii) – b, (iv) – c
(C) (i) – d, (ii) – c, (iii) – b, (iv) – a

List II

- (a) Introduced in 2000 and was specifically targeted towards indigent senior citizens.
 - (b) Introduced in 1997 and for the first time a differential price policy was adopted for poor and non-poor
 - (c) Introduced in 1992 and the target was to provide the benefits of PDS to remote and backward areas.
 - (d) Introduced in 2000 and was specifically targeted towards poorest of the poor.
- (B) (i) – c, (ii) – d, (iii) – b, (iv) – a
(D) (i) – b, (ii) – c, (iii) – d, (iv) – a

99. This Act provides for food and nutritional security in human life at affordable prices and enables people to live a life with dignity, and under this act, 75% of the rural population and 50% of the urban population have been categorized as eligible households for food security. Identify the Act being referred to

- (A) The National Food Security Act, 2013 (B) Food Safety and Standards Act, 2006
(C) The Prevention of Food Adulteration Act, 1954 (D) Essential Commodities Act, 1955

100. Which of the following terms is used to denote total value of all the final goods and services produced within the geographical boundaries of a country during a particular year?

- (A) Net National Product (B) Gross National Product
(C) Net National Income (D) Gross Domestic Product



ODISHA NTSE STAGE I_2020-21

ANSWERS _SAT_SET-B

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

** No option is correct.