



NTSE (STAGE-II) TEST SERIES

SCHOLASTIC APTITUDE TEST (SAT)

TEST #3

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Duration of Test is **120 Minutes** and Questions Paper Contains **100 Questions**. Total Marks are **100**.
2. Answers are to be given on a separate OMR sheet.
3. 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. 120 minutes are allotted for Science, Mathematics and Social Science.
4. Please follow the instructions given on the OMR sheet for marking the answers.
5. Mark your answers for questions 1–100 on the OMR sheet by darkening the circles.
6. Every correct answer will be awarded one mark. **THERE IS NO NEGATIVE MARKING.**
7. 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.
8. 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.
9. Rough work can be done anywhere in the booklet but not on the OMR sheet/loose paper.
10. Please return the OMR sheet to the invigilator after the test.

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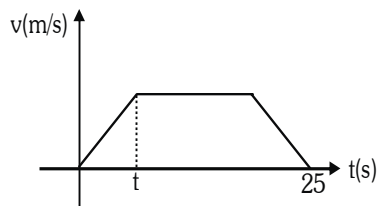
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1. In given figure acceleration and deceleration is 5m/s^2 and the average velocity during the motion is 20 m/s , then the value of 't' is

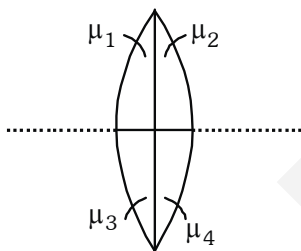


- (1) $t = 10$ (2) $t = 5$
(3) $t = 15$ (4) $t = 20$
2. If a Hg barometer is placed on the surface of moon then height of Hg column.

- (1) 760 mm of Hg (2) 76 mm of Hg
(3) $\frac{76}{6}$ mm of Hg (4) 0

3. Find the number of images form by the convex lens. Given below

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



4. Sound can be heard from long distance at night due to?

- (1) Reflection of sound
(2) Refraction of sound
(3) Speed of sound is more at night
(4) Quality of sound

5. A small spherical ball of mass 'm' is used as the bob of a pendulum. The work done by the force of tension on its displacement is W_1 . The same ball is made to roll on a frictionless table. The work done by the force of normal reaction is W_2 . Again the same ball is given positive charge 'g' and made to travel with a velocity v in direction of a magnetic field B. The work done by the force experienced by the charged ball is W_3 . If the displacements in each case are the same, we have

- (1) $W_1 < W_2 < W_3$
(2) $W_1 > W_2 > W_3$
(3) $W_1 = W_2 = W_3$
(4) that W_1, W_2, W_3 cannot be related by any equation

6. A crown made of gold and copper weight 210 gm in air and 198 gm in water find the weight of gold in crown is

$$d_{\text{gold}} = 19.3 \text{ gm/cm}^3$$

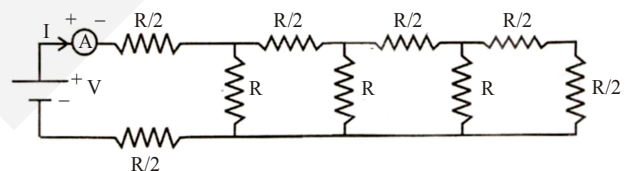
$$d_{\text{copper}} = 8.5 \text{ gm/cm}^3$$

- (1) $m_{\text{gold}} = 193 \text{ gm}$ (2) $m_{\text{gold}} = 200 \text{ gm}$
(3) $m_{\text{gold}} = 150 \text{ gm}$ (4) $m_{\text{gold}} = 195 \text{ gm}$

7. A tuning fork is excited by striking it with a padded hammer. What would be the nature of the vibrations executed by the prongs as well as the stem of the fork respectively? (The reference direction is that of the propagation of the sound wave.)

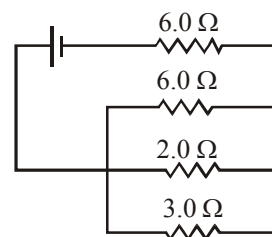
- (1) Both vibrate longitudinally
(2) Both vibrate transversely
(3) The prongs vibrate longitudinally whereas the stem vibrates transversely
(4) The prongs vibrate transversely whereas the stem vibrates longitudinally

8. Find the reading of the ammeter in the circuit given below.



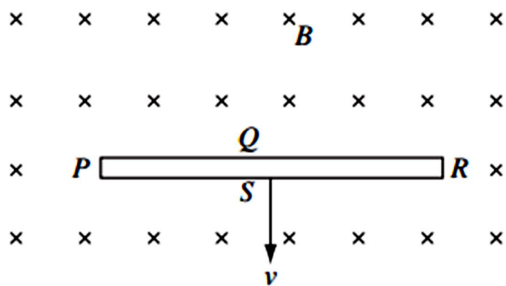
- (1) $\frac{V}{2R}$ (2) $\frac{2V}{3R}$
(3) $\frac{4V}{3R}$ (4) $\frac{11V}{R}$

9. In the electric circuit shown below, the current through the 2.0Ω resistor is 3.0 A . Approximately what is the EMF of the battery?



- (1) 51 V (2) 42 V (3) 36 V (4) 24 V

10. A thin solid conductor with sides PQRS is moving at constant velocity v , at right angles to a uniform magnetic field B , directed into the page as shown.



Which side of the conductor has the greatest concentration of electrons?

- (1) P (2) Q (3) R (4) S
11. A point source is placed at a distance 's' from a thick glass mirror of thickness 't'. Refractive index of the glass is 'n'. Find the distance between the object and its image.

- (1) $S + \frac{t}{n}$ (2) $\frac{s}{n}$
 (3) $2\left(S + \frac{t}{n}\right)$ (4) $S - \frac{t}{n}$

12. A ball is thrown vertically upwards with a given velocity 'V' such that it rises for T seconds ($T > 1$). What is the distance traversed by the ball during the last one second of ascent (in meters)? (Acceleration due to gravity is $g \text{ m/s}^2$.)

- (1) $\frac{1}{2}gT^2$
 (2) $V + \frac{1}{2}g[(T-1)^2 - T^2]$
 (3) $\frac{g}{2}$
 (4) $\frac{1}{2}g[(T-1)^2 - T^2]$

13. 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

14. When 20 ml of $\frac{M}{20}$ NaOH are added to 10 ml of $\frac{M}{10}$ HCl, the resulting solution will

- (1) turn red litmus into blue
 (2) turn phenolphthalein solution pink colour
 (3) turn methyl orange red
 (4) will have no effect on red or blue litmus

15. From 392 mg of H_2SO_4 , 1.204×10^{21} molecules are removed. How many moles of H_2SO_4 are left?

- (1) 2.0×10^{-3} (2) 1.2×10^{-3}
 (3) 4.0×10^{-3} (4) 1.5×10^{-3}

16. Following are various types of colloids.

Match column X with column Y.

X(Colloids)	Y(Classification)
I Smoke	A Sol
II Gelatin	B Aerosol
III Soap lather	C Emulsion
IV Milk	D Foam

Correct matching is

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

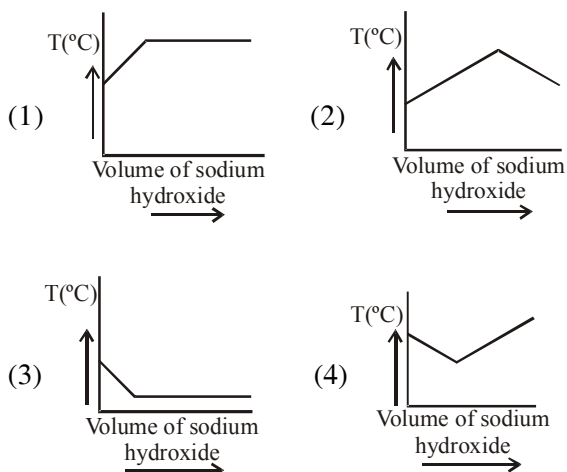
17. Which is a redox reaction?

- (1) $2\text{CuI}_2 \rightarrow \text{CuI} + \text{I}_2$
 (2) $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$
 (3) $\text{NH}_4\text{Cl} + \text{NaOH} \rightarrow \text{NH}_3 + \text{NaCl} + \text{H}_2\text{O}$
 (4) $\text{Cr}_2(\text{SO}_4)_3 + 6\text{KOH} \rightarrow 2\text{Cr}(\text{OH})_3 + 3\text{K}_2\text{SO}_4$

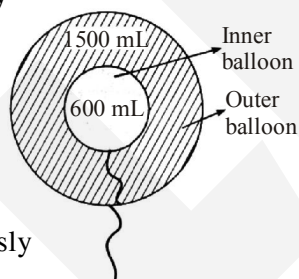
18. At the same temperature and pressure which of the following gas will have highest kinetic energy per mole?

- (1) Hydrogen (2) Oxygen
 (3) Methane (4) All of these

19. The reaction between aqueous sodium hydroxide and hydrochloric acid is exothermic. Which graph shows the change in temperature when aqueous sodium hydroxide is added to hydrochloric acid until the alkali is present in excess?



20. Two inflated balloons I and II (thin skin) having volume 600 ml and 1500 mL at 300 K are taken as shown in the diagram. If maximum volume of inner and outer balloons are 800 mL and 1800 mL respectively then find the balloon which will burst first on gradual heating.

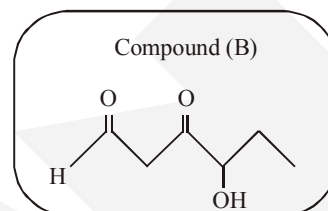
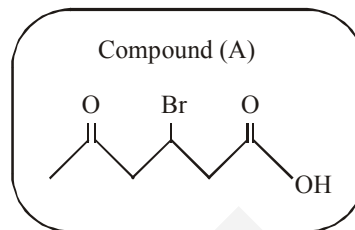


- (1) inner balloon
(2) outer balloon
(3) both simultaneously
(4) unpredictable
21. Which of the following statements are correct?
- I. Electron affinity is defined as the ionization energy of the uninegative gaseous ion.
II. First electron affinity of F is less than that of Cl due to its small size.
III. Second electron affinity of O is endothermic.
IV. In a given period, noble gases have the highest electron affinity.

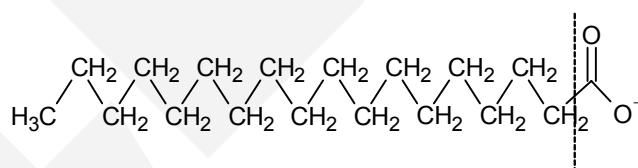
The correct statements are

- (1) All are correct
(2) Only (II) is correct
(3) (I) and (IV) are correct
(4) (II) and (III) are correct

22. Which one of the given functional group is present in both the following compounds?



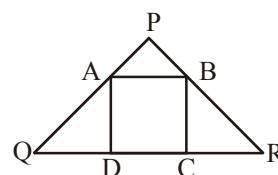
- (1) Ketone
(2) Carboxylic acid
(3) Aldehyde
(4) Alcohol
23. What type of bond would exist between this soap and oil?



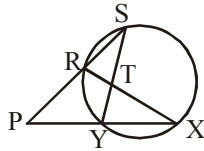
- (1) London-dispersion forces
(2) Covalent bonds
(3) Dipole-Dipole forces
(4) Hydrogen bonds
24. X is formed by the partial replacement of hydroxyl groups of a diacidic base by an acidic radical. The number of ionisable hydroxyl groups in X is
- (1) 0 (2) 1 (3) 2 (4) 3
25. Latent heat of vaporisation is used to
- (1) Overcome the forces of attraction between molecules in solid state.
(2) Increase the kinetic energy of molecules in liquid state.
(3) Overcome the forces of attraction between molecule in liquid state.
(4) Increase the kinetic energy of molecules in vapour state.

26. In the electrolytic reduction of alumina, the electrolyte is covered with coke powder because it
- (1) prevents oxidation of aluminium formed
 - (2) reacts with aluminium forming aluminium carbide
 - (3) prevents heat loss from the electrolyte
 - (4) none of these
27. Which of the following tissues gives tensile strength against bending and swaying?
- (1) Parenchyma
 - (2) Collenchyma
 - (3) Sclereids
 - (4) All of these
28. The ciliated columnar epithelial cells in humans are known to occur in
- (1) Bronchioles and fallopian tubes
 - (2) Bile duct and oesophagus
 - (3) Fallopian tubes and urethra
 - (4) Eustachian tube and stomach lining
29. Reduction of nitrogen to ammonia by living organisms is called
- (1) Nitrification
 - (2) Denitrification
 - (3) Biological nitrogen fixation
 - (4) Ammonification
30. Pulmonary circulation is required for
- (1) nutrient supply to lungs
 - (2) elimination of waste products from the lungs
 - (3) oxygenation of deoxygenated blood
 - (4) nutrient supply to heart
31. In order to prevent STDs, one of the following is NOT correct?
- (1) Avoid sex with unknown partners/multiple partners
 - (2) Go to an unqualified doctor at earliest instance of STD
 - (3) Always use condoms during coitus
 - (4) Participate in sex education sessions
32. Which of the following statements regarding evolution is false?
- (1) Descent with modification.
 - (2) In evolution, older species are eliminated during formation of new species.
 - (3) Evolved species are not always better than the parental species.
 - (4) Evolution depends upon natural selection and genetic drift.
33. An analysis of soil sample revealed 0.5mg of pesticide and 1mg of the same pesticide was found in grains growing in that soil. However in the adipose tissue of birds which feed on those grains the concentration was 2mg. The reason for this is the phenomenon known as
- (1) Bio-absorption
 - (2) Bio-translocation
 - (3) Bio-magnification
 - (4) Bio-multiplication
34. Given are few statements regarding the conducting elements of plants. Which of the following is/ are correct?
- (I) Tracheids and vessels are non living cells of xylem.
 - (II) In angiosperms, xylem vessels and tracheids conduct water and mineral upwards.
 - (III) In non-flowering plants tracheids are absent, vessels are the only conducting cells.
- (1) I and II
 - (2) I and III
 - (3) II and III
 - (4) All of the above
35. When parents P_1 and P_2 are crossed, F_2 progeny was produced with $3/4$ similar features in phenotype to P_2 and F_1 and $1/4$ possessed contrasting traits. If the traits being considered here are for height with T for tall and t for short. What will be the possible genotype of P_1 and $1/4$ of F_2 ?
- (1) tt and Tt
 - (2) Tt and tt
 - (3) Tt and Tt
 - (4) tt and tt
36. Which of the following is micronutrient for plants?
- (1) Sulphur
 - (2) Calcium
 - (3) Potassium
 - (4) Boron
37. Which one generates heart beat ?
- (1) Purkinje fibres
 - (2) SA node
 - (3) AV node
 - (4) None of these

38. During short-term starvation, most available fuel molecules are catabolized to provide energy for metabolism rather than being used as building blocks for growth and repair, a trade-off that is hormonally regulated by
 (1) acetylcholine (2) glucagon
 (3) oxytocin (4) antidiuretic hormone
39. Auxins (IAA) in plants are known to affect all of the following phenomena except
 (1) root initiation in cuttings.
 (2) phototropism of shoots.
 (3) inhibition of lateral buds.
 (4) None of these
40. During mammalian labor and delivery, the contraction of uterine muscles is enhanced by oxytocin. This is an example of
 (1) a negative feedback system.
 (2) a hormone that acts in an antagonistic way with another hormone.
 (3) a hormone that is involved in a positive feedback loop.
 (4) None of these
41. The number $(1024)^{1024}$ is obtained by raising $(16)^{16}$ to the power n. What is the value of n?
 (1) 64 (2) 64^2 (3) 64^{64} (4) 160
42. The number of distinct prime divisors of the number $512^3 - 253^3 - 259^3$ is :
 (1) 4 (2) 5 (3) 6 (4) 7
43. A distributes Rs. 180 equally among a certain number of people. B distributes the same sum but gives to each person Rs. 6 more than A does, and gives the same sum to 40 persons less than A does. How much does A give to each person?
 (1) Rs. 1 (2) Rs. 3 (3) Rs. 5 (4) Rs. 4
44. Two quadratic equations with positive roots have one common root. The sum of the product of all four roots taken two at a time is 192. The equation whose roots are the two different roots is $x^2 - 15x + 56 = 0$. The sum of all the four roots is
 (1) 17 (2) 18 (3) 19 (4) 23
45. If $a^2 + b^2 + c^2 = 1$ and $p = ab + bc + ca$, then:
 (1) $\frac{1}{2} \leq p \leq 2$ (2) $-\frac{1}{2} \leq p \leq \frac{1}{2}$
 (3) $-\frac{1}{2} \leq p \leq 1$ (4) $-1 \leq p \leq \frac{1}{2}$
46. Find the product of 11 terms in G.P. whose 6th term is 5.
 (1) 5^{12} (2) 5^{10} (3) 5^{11} (4) 5^9
47. If $\sin x + \sin^2 x = 1$, then the value of $\cos^{12}x + 3 \cos^{10}x + 3 \cos^8x + \cos^6x - 1$ is
 (1) -1 (2) 0 (3) 1 (4) 2
48. If four points A (6, 3), B(-3, 5), C (4, -2) and D(x, 3x) are given such away that $\frac{\text{Area}(\triangle DBC)}{\text{Area}(\triangle ABC)} = \frac{1}{2}$, then the value of x is
 (1) $\frac{3}{8}$ or $-\frac{14}{8}$ (2) 2 or -3
 (3) $\frac{11}{8}$ or $-\frac{3}{8}$ (4) None of these
49. The orthocentre of the triangle ABC is B and the circumcentre is S (a, b). If A is the origin then the co-ordinate of C are
 (1) (2a, 2b) (2) $\left(\frac{a}{2}, \frac{b}{2}\right)$
 (3) $(\sqrt{a^2 + b^2}, 0)$ (4) None of these
50. The sides of a quadrilateral are all positive integers and three of them are 5, 10, 20. How many possible values are there for the fourth side?
 (1) 29 (2) 31 (3) 32 (4) 34
51. A square ABCD is constructed inside a triangle PQR having sides 10, 17 and 21 as shown in figure. Find the perimeter of the square ABCD.
 (1) 28 (2) 23.2 (3) 25.4 (4) 28.8



52. In the adjoining figure, the chords XY and SR are produced to meet outside the circle at P. The chords XR and YS meet inside the circle at T. If $\angle X = x^\circ$ and $\angle XTS = y^\circ$, then $\angle P$ is equal to



- (1) $(x + y)^\circ$ (2) $(y - x)^\circ$
 (3) $2(y - x)^\circ$ (4) $(y - 2x)^\circ$
53. A cow is tied to a corner (vertex) of a regular hexagonal fenced area of side a meters by rope of length $\frac{5a}{2}$ meters in a grass field. (The cow cannot graze inside the fenced area) What is the maximum possible area of the grass field to which the cow has access to graze.
- (1) $5\pi a^2$ (2) $\frac{5}{2}\pi a^2$ (3) $6\pi a^2$ (4) $3\pi a^2$
54. The circumference of the front wheel of a cart is 30 feet long and that of the back wheel is 36 feet long. What is the distance travelled by the cart, when the front wheel has done five more revolutions than the rear wheel?
- (1) 20 ft (2) 25 ft (3) 750 ft (4) 900 ft
55. If the centroid of the triangle formed by the points (a, b) , (b, c) and (c, a) is at the origin, then $a^3 + b^3 + c^3 =$
- (1) abc (2) $a + b + c$
 (3) $3abc$ (4) 0
56. A 4-digit number is formed by repeating a 2-digit number such as 2525, 3232 etc. Any number of this form is exactly divisible by
- (1) 7
 (2) 11
 (3) 13
 (4) Smallest 3-digit prime number

57. A number x is chosen at random from the numbers $-3, -2, -1, 0, 1, 2, 3$. The probability that $|x| < 2$ is

(1) $\frac{5}{7}$ (2) $\frac{3}{7}$ (3) $\frac{2}{7}$ (4) $\frac{1}{7}$

58. The pair of equations $3^{x+y} = 81$, $81^{x-y} = 3$ has

(1) No solution

(2) The solution $x = 2\frac{1}{2}$, $y = 2\frac{1}{2}$

(3) The solution $x = 2$, $y = 2$

(4) The solution $x = 2\frac{1}{8}$, $y = 1\frac{7}{8}$

59. A person on the top of a tower observes a scooter moving with uniform velocity towards the base of the tower. He finds that the angle of depression changes from 30° to 60° in 18 minutes. The scooter will reach the base of the tower in next.

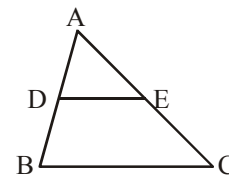
(1) 9 minutes

(2) $\frac{18}{(\sqrt{3}-1)}$ minutes

(3) $6\sqrt{3}$ minutes

(4) the time depends upon the height of the tower

60. In the figure shown below, $DE \parallel BC$ and $AD = 3x - 2$, $AE = 5x - 4$, $BD = 7x - 5$ and $CE = 5x - 3$. therefore the value of x is



(1) only 1 (2) only $\frac{7}{10}$

(3) 1 or $\frac{7}{10}$ (4) $\frac{10}{7}$

61. The Congress of Vienna was held in 1815 after
- (1) The fall of Constantinople
 (2) Defeat of Napoleon in the battle of Waterloo
 (3) The French Revolution
 (4) The Frankfurt uprising

62. In Vietnamese national struggle during the first decade of the 20th century 'Go East Movement' was advocated by some nationalists. That means
- (1) Seek Japan's help to drive French out of Vietnam
 - (2) Seek Japan's help in modernizing Vietnamese education
 - (3) Moving over to Japan to get jobs
 - (4) Modernizing Vietnam on the lines of Japan
63. Vietnamese Communist Party was founded in 1930 by
- (1) Phan Chu Trinh (2) Phan Boi Chau
 - (3) Cuong De (4) Ho Chi Minh
64. The Act of Union (1707) between England and Scotland resulted in the formation of
- (1) Republic of Ireland
 - (2) Republic of Scotland
 - (3) British empire
 - (4) United Kingdom of Great Britain
65. Match the following:-
- | Column-I | | Column-II | |
|----------|---------|-----------|---|
| (a) | Carding | (p) | A person who sorts wool according to its fibre |
| (b) | Stapler | (q) | A person who gathers cloth by pleating |
| (c) | Fuller | (r) | The process in which fibres are prepared before |
- (1) A-q, B-r, C-p (2) A-p, B-q, C-r
 - (3) A-r, B-p, C-q (4) A-p, B-r, C-q
66. The correct chronological sequence of following events is
- (i) Storming of Bastille
 - (ii) Tennis Court Oath
 - (iii) Declaration of rights of Man and Citizen
 - (iv) Convening of the Estates General by the Emperor
- (1) ii, i, iv, iii (2) iii, i, iv, ii
 - (3) iv, ii, iii, i (4) iv, ii, i, iii
67. In December 1929, under whose Presidency the Lahore Congress formalised the demand of Purna Swaraj?
- (1) Mahatma Gandhi (2) Jamshedji Tata
 - (3) Jawahar Lal Nehru (4) Madam Cama

68. Assertion (A): Nazism became a mass movement after the great depression.
Reason (R): After 1929, banks collapsed and business shut down, workers lost their jobs and the middle classes were threatened with destitution.
- (1) Both A and R are true & R explains A
 - (2) Both A and R are true but R does not explain A
 - (3) A is true and R is false
 - (4) A is false and R is true
69. Which are the two international agencies known as 'Bretton Woods Twins'?
- (1) UNICEF and UNESCO
 - (2) IMF and World Bank
 - (3) WTO and GATT
 - (4) WHO and ILO
70. Read the following statements and choose the right option
- Statement I: By the end of the First World War women's skirts became shorter and trousers became a vital part of western women's clothing
- Statement II: By the twentieth century plain and austere dress came to reflect seriousness and professionalism
- (1) Both the statements are true
 - (2) Both the statements are false
 - (3) Statement I is true and Statement II is false
 - (4) Statement I is false and Statement II is true
71. Provisional Government in Russia was led by
- (1) Lenin (2) Stalin
 - (3) Bolsheviks (4) Kerenskii
72. Who led the procession of workers to the event 'Bloody Sunday' in Russia?
- (1) Gapon (2) Lenin
 - (3) Kerensky (4) Stalin
73. According to Benoy Chowdhary, the crop whose cultivation was considered a curse, was
- (1) Tea (2) Opium
 - (3) Jute (4) Sugarcane

74. Assertion (A): The chiefs were appointed by the colonial government after accumulated wealth overtime.
 Reason (R): The life history of the poor pastoralists who depended only on their livestock was different.
- (1) Both A and R are true & R explains A
 (2) Both A and R are true but R does not explain A
 (3) A is true and R is false
 (4) A is false and R is true

75. Who said 'Plant more wheat, wheat will win the war' ?
- (1) President Thomas Jefferson
 (2) President Lincoln
 (3) President Wilson
 (4) President Kennedy

76. Which four major ports of India lie on the golden quadrilateral?
- (1) Chennai, Tuticorin, Mangalore, Marmagao
 (2) Kolkata, Chennai, Mangalore, Mumbai
 (3) Marmagao, Mumbai, Kandla, Mangalore
 (4) Kolkata, Mumbai, Vishakhapatnam, Chennai

77. Match List I (Rivers) with List II (Origin) and select the correct answer using the codes given below.

List I (Rivers)		List II (Origin)	
(A)	Godavari	(p)	Highlands of Chhattisgarh
(B)	Krishna	(q)	Amarkantak Hill
(C)	Narmada	(r)	Nasik Hill
(D)	Mahanadi	(s)	Mahabaleshwar

- (1) A-s, B-r, C-p, D-q (2) A-r, B-s, C-q, D-p
 (3) A-p, B-q, C-s, D-r (4) A-q, B-p, C-r, D-s

78. Assertion (A): The earth does not receive an equal amount of solar energy at all latitudes.
 Reason (R): As one goes from low altitude to high altitude temperature decreases because atmosphere becomes less dense.
- (1) Both A and R are true & R explains A
 (2) Both A and R are true but R does not explain A
 (3) A is true and R is false
 (4) A is false and R is true

79. Nathu La and Shipki La are names of
 (1) Rivers (2) Mountain peaks
 (3) Mountain passes (4) Mountain glaciers
80. Garo, Khasi and Jaintia hills are situated on
 (1) Meghalaya Plateau
 (2) Chotanagpur Plateau
 (3) Malwa Plateau
 (4) Mysore Plateau

81. Consider the following statements and identify the correct response from the given options:
Statement I: Jet streams are the winds which blow with high velocity over a narrow zone in the upper troposphere
Statement II: The Sub Tropical Westerly Jet Stream approximately 14° N blows over peninsular India in summer.
- (1) Statement I is correct and II is incorrect
 (2) Statement I is incorrect and II is correct
 (3) Statements I and II are correct
 (4) Statements I and II are incorrect

82. **Assertion (A):** The western cyclonic disturbances cause the much-needed winter rains over the plains and snowfall in the mountains.
Reason (R): They usually influence the weather of the North and North-western regions of India.
- (1) Both A and R are true and R is correct explanation of A
 (2) Both A and R are true but R is not the correct explanation of A
 (3) A is true and R is false
 (4) A is false and R is true

83. Match the following:

National Park		State	
(a)	Gorumara National Park	(p)	Rajasthan
(b)	Keoladeo Ghana National Park	(q)	Maharashtra
(c)	Guindy National Park	(r)	Tamil Nadu
(d)	Tadoba National Park	(s)	West Bengal

- (1) A-q, B-r, C-s, D-p
 (2) A-s, B-p, C-r, D-q
 (3) A-q, B-p, C-s, D-r
 (4) A-s, B-r, C-q, D-p

84. Consider the following statements and identify the correct response from the options given thereafter:
- (a) Rajasthan, the biggest state in terms of area, has almost 15 % of the total population of India.
- (b) Assam and most of the Peninsular states have moderate population densities.
- (c) The Northern Plains and Kerala in the south have high to very high population densities because of fertile soil and abundant rains.
- (d) Maharashtra is the second most populous state of India.
- (1) a,b,c (2) b,c,d (3) a,c,d (4) a,b,d

85. Match the following:

Column - I		Column - II	
(A)	Club of Rome	(p)	Rio de Janeiro
(B)	Brundtland Report	(q)	Adopted at the UNCED
(C)	Earth Summit	(r)	1968
(D)	Agenda 21	(s)	1987

Select the correct options

- (1) A-r, B-q, C-p, D-s
 (2) A-r, B-s, C-p, D-q
 (3) A-s, B-r, C-q, D-p
 (4) A-r, B-s, C-q, D-p
86. **Assertion (A):** The biological loss due to the destruction of forests and wildlife is strongly correlated with the loss of cultural diversity.
Reason (R): Such losses have increasingly marginalised and impoverished many indigenous and other forest-dependent communities.
- (1) Both A and R are true and R is correct explanation of A.
 (2) Both A and R are true but R is not the correct explanation of A.
 (3) A is true and R is false.
 (4) A is false and R is true.
87. Choose the correct sequence to indicate the following statements about the cultivation of maize?
- (i) It is a kharif crop
 (ii) It needs temperature between 21° C to 27° C
 (iii) It grows well in new alluvial plain
 (iv) In Bihar it is also grown in rabi season
- (1) TTTT (2) TTFT (3) FFTT (4) FTTF

88. **Statement I:** The highest peak in the western ghats of Karnataka resembles the face of a bull.
Statement II: The Kudremukh iron mines are located in the Western Ghats of Karnataka which are known to be one of the largest in the world..
- (1) Both the statements are true, statement II explains statement I
 (2) Statement I is true, II is not true
 (3) Both the statements are true, statement II does not explain statement I
 (4) Statement I is not true, II is true
89. Match column I with column II. Choose the correct option given below.

Column-I		Column-II	
(A)	Bikaner	(p)	Software park
(B)	Salem	(q)	Automobile
(C)	Mysore	(r)	Textile
(D)	Gurgaon	(s)	Iron and Steel

- (1) A-r, B-p, C-s, D-q (2) A-p, B-s, C-q, D-r
 (3) A-s, B-q, C-p, D-r (4) A-r, B-s, C-p, D-q
90. Match the following:

Column-I		Column-II	
(A)	A tidal port	(p)	Kolkata
(B)	An inland riverine port	(q)	Vishakhapatnam
(C)	The deepest landlocked port	(r)	Chennai
(D)	The oldest artificial port	(s)	Kandla

- (1) A-s, B-p, C-q, D-r (2) A-s, B-p, C-r, D-q
 (3) A-s, B-q, C-p, D-r (4) A-q, B-p, C-s, D-r
91. Consider the statements which are true :
- (i) Zimbabwe attained independence from White Minority rule in 1980.
 (ii) Since then the country has been ruled by ZANU-PF, the party that led the freedom struggle.
 (iii) Its leader, Robert Mugabe, has been ruling the country since independence.
 (iv) Elections have been held regularly and always won by ZANU-PF.
- (1) All are true (2) All are False
 (3) Only (iii) & (iv) (4) Only (i) & (iii)

92. What are the conditions to make election democratic, state true and false?
 (i) All should have one vote and every vote should have equal value
 (ii) Parties and candidates are not subject to any authority in contesting election
 (iii) Election should be held at regular intervals
 (iv) People can choose what they really want
 (1) TTFT (2) TFTF (3) TFTT (4) FTFT
93. Choose the correct sequence to indicate the following statements.
 (i) The Constitution has declared India as a union of states.
 (ii) India is a federal state with weak central government like Belgium.
 (iii) The constitution originally provided three tier system of government.
 (iv) India is holding together type of federation in which all states have equal powers.
 (1) TTTT (2) TFFF (3) FFTT (4) FTTF
94. Read the following:
 (i) Cross cutting social difference takes place when groups share common interest on one issue may differ on other issue.
 (ii) In Northern Ireland Protestants and Catholics cross cut each other.
 (1) Only (i) is true (2) Only (ii) is true
 (3) Both are true (4) Both are false
95. Choose wrong statement(s) from below:
 (i) Foundational challenge is the challenge of most of the non democratic countries
 (ii) Challenge of deepening of democracy is faced by only communist countries
 (iii) Challenge of expansion is faced by established democracies
 (iv) The right to information is an example of political reforms
 (1) (ii) only (2) (i), (ii) and (iii)
 (3) (ii) and (iv) (4) (i), (ii) and (iv)
96. Choose the correct sequence to indicate the following statements
 (i) REGP aims to create self employment opportunities in rural areas and small towns.
 (ii) PMRY aims to create self-employment opportunities for educated unemployed youth in rural areas and small towns.
 (iii) SGSY aims at bringing the assisted poor families above the poverty line
 (iv) AAY aims to provide food at a highly subsidized rate for poorest of the poor
 (1) TTTT (2) TFFT (3) FFTT (4) FTTF
97. Read the statements:
 (i) The National Food Security Act, 2013, provides for food and nutritional security life at affordable prices.
 (ii) Under this act 50% of rural population and 75% of urban population have been categorised as eligible households for food security.
 (1) (i) is true but (ii) is false
 (2) Both are false
 (3) Both are true and (ii) is explanation of (i)
 (4) Both are true and (ii) is not the explanation of (i)
98. Read the statement
 (i) Human development index is better than per capita income method to compare the development of countries.
 (ii) Former does not hide disparities.
 (1) (i) is true but (ii) is false
 (2) Both are false
 (3) Both are true and (ii) is explanation of (i)
 (4) Both are true but (ii) is not the explanation of (i)
99. Read the statement and choose correct option:
 (i) Special Economic zones have been set up to attract foreign companies to invest in India.
 (ii) Here companies do not have to pay tax in the first six years.
 (1) Both are false
 (2) Both are true and (ii) is explanation of (i)
 (3) Only (i) is true
 (4) Only (ii) is true
100. What do Consumer Forums do to protect the consumer?
 (i) They represent individual producers in the consumer courts.
 (ii) They create awareness among producers how to tackle consumer's allegation in the court.
 (iii) They guide consumers on how to file cases in the consumer court.
 (iv) They provide financial assistance to the consumers for the expenses on court proceedings.
 Which of these statement(s) is/are correct?
 (1) i, ii, iii (2) i, iii and iv
 (3) only i and ii (4) only ii and iii