ALLEN CAREER INSTITUTE KOTA (RAJASTHAN)

NTSE (STAGE-II) TEST SERIES

SCHOLASTIC APTITUDE TEST (SAT)

TEST #2

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 alloted 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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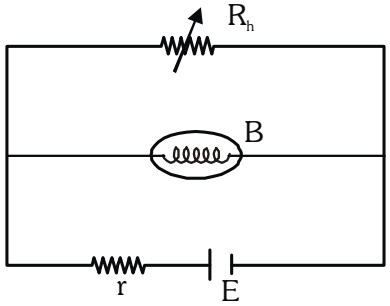
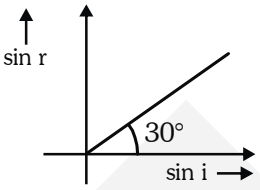
1. In given figure when value of R_h decreases then find the effect on brightness of bulb.



(1) will increases
(2) will reduces
(3) Remain constant
(4) Information is insufficient

2. The kinetic energy which an electron acquires when accelerated through a potential of 1 volt is?
(1) 1 j (2) 1 ev
(3) 1 erg. (4) 1 watt

3. A light passes through air to medium of refractive index μ. Find the speed of light in that medium is?



(1) $v = \frac{C}{\sqrt{3}}$ (2) $v = \sqrt{3}C$

(3) $v = \frac{2C}{\sqrt{3}}$ (4) $v = \frac{C}{2}$

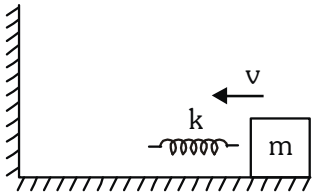
4. A planet revolving around sun in an elliptical orbit has constant
(1) Kinetic energy (2) Potential energy
(3) Total energy (4) All

5. In the nuclear decay given below find the element emitted respectively

$$^{A}_{Z}X \longrightarrow {}^{A}_{Z+1}Y \longrightarrow {}^{A-4}_{Z-1}B \longrightarrow {}^{A-4}_{Z-1}B$$

(1) α, β, γ (2) β, α, γ
(3) γ, β, α (4) β, γ, α

6. A block is attached with a spring of spring constant k and is moving towards a fixed wall with speed v as shown. As spring touches to wall, It start compressing. Find work done by the spring force on the wall during the process

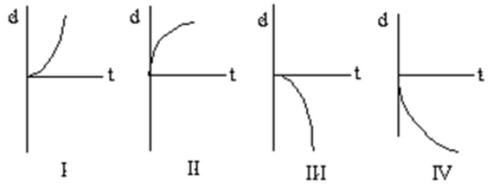


(1) $\frac{1}{2}kx^2$ (2) $\frac{1}{2}mv^2$
(3) Both (4) zero work

7. A body of mass 10 kg is dropped from height 10 m from the ground such that after some time it K.E. become 450 j, then what will be the height of the body at that time [g = 10 m/s^2]
(1) 10 m (2) 6 m
(3) 4m (4) 5.5 m

8. 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 D. 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

9. Each of the graphs below shows the displacement, d, as a function of time for a different moving object. Which graph(s) show an object that is moving with a positive acceleration?



(1) Graph I, only
(2) Graphs I and III, only
(3) Graph I and II, only
(4) Graphs I and IV, only

10. A proton and α particle after acceleration through same potential enter into a uniform magnetic field perpendicular to their velocity find radius ratio of proton and a particle [Rp ÷ Rα]
(1) $1:\sqrt{2}$ (2) 1 : 1
(3) 1 : 2 (4) $\sqrt{2}:1$

11. A satellite is moved from a geostationary orbit to a higher orbit. Which statement about the orbit change is correct?

(1) During the move the gravitational potential energy decreases.

(2) The change in gravitational potential energy is independent of the mass of the satellite.

(3) The work done is the difference between the gravitational potential energy of the higher orbit and that of the geostationary orbit.

(4) The work done is the energy required to move the satellite, which is in gravitational field, from a very large distance away, to the higher orbit.

12. Two substances of densities ρ_1 and ρ_2 are mixed in equal volume and the relative density of mixture is 4. When they meet in equal masses, the relative density of the mixture is 3. The values of ρ_1 and ρ_2 are

(1) $\rho_1 = 6$ and $\rho_2 = 2$

(2) $\rho_1 = 3$ and $\rho_2 = 5$

(3) $\rho_1 = 12$ and $\rho_2 = 4$

(4) None of these

13. The two blocks of masses M and 2M initially travel at the same speed v but in opposite directions. They collide and stick together. How much mechanical energy is lost to other forms of energy during the collision?

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

(3) $\frac{3}{2}Mv^2$ (4) $\frac{4}{3}Mv^2$

14. Alkenyne is the hydrocarbon which contains both double and triple bond in a single molecule. The third member of the family of alkenynes has the molecular formula:

(1) C_6H_6 (2) C_5H_6 (3) C_6H_8 (4) C_4H_4

15. Mercury is the only metallic element that is liquid at standard conditions for temperature and pressure; the only other element that is liquid under these conditions is bromine, though metals such as caesium, gallium, and rubidium melt just above room temperature. Mercury is used as a thermometric liquid, the reason behind that it has:

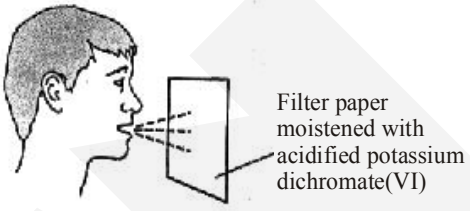
(1) Lowest latent heat of fusion

(2) Lowest specific heat among all the liquids

(3) High specific heat among all the liquids

(4) Can't say

16. Acidified potassium dichromate can be used to detect the presence of ethanol vapour in the breath of a person who has consumed alcohol.



A colour change from orange to green observed if ethanol is present.

This shows that ethanol is

(1) an alkali (2) an indicator

(3) an oxidising agent (4) a reducing agent

17. Which of the following is correct order of atomic radii?

(1) Li > Be > B > O > C > N

(2) O < N < C < B < Be < Li

(3) Li < Be < B < C < N < O

(4) O < C < N < Be < B < Li

18. There are 3 containers X, Y and Z. X contains 10ml of water and Z contains 10 ml of milk. Y contains 5ml of milk (same as in container Z) mixed with 5 ml of water. All 3 containers have pH value of 6.5. P amount of Acetic acid is added to container X, Q amount to Y and R amount to Z. Such that the final pH value in each container is 5.5. Then which of the following is true?

(1) P < Q < R (2) P < R = Q

(3) P = Q = R (4) P < R < Q

19. Which one of the following four metal would be displaced from the solution of its salts by other three metals?

(1) Mg (2) Ag

(3) Zn (4) Cu

20. Which of the following substance is a good oxidising agent?

(1) H_2O_2 (Hydrogen peroxide)

(2) SO_2 (Sulphur dioxide)

(3) Coke (carbon)

(4) H_2O (water)

21. A compound 'M' is obtained by the reaction of aq. KOH with another compound 'N', which is obtained from halogenation reaction of a saturated hydrocarbon. Compound 'M' also forms an unsaturated hydrocarbon 'z' on dehydration in presence of H_2SO_4 at 170ºC. Identify M, N and z respectively.

(1) $C_2H_5OH, C_2H_5Br, C_2H_4$

(2) CH_3CHO, CH_3Br, C_2H_4

(3) $C_2H_5OH, C_2H_5COOH, C_2H_2$

(4) $CH_3COOH, C_2H_5OH, C_2H_2$

22. Identify the methods by which the individual components of mixture containing water, potassium nitrate, sodium chloride, alcohol and carbon tetrachloride (CCl_4) can be separated.

(1) separating funnel, fractional distillation, fractional crystallisation, distillation

(2) fractional distillation, distillation, fractional crystallisation

(3) separating funnel, fractional distillation, filtration, distillation

(4) separating funnel, fractional distillation, sedimentation and decantation

23. How many oxygen atoms are in 2.71×10^{25} molecules of CO_2?

(1) 5.42×10^{25} (2) 4.272×10^{24}

(3) 3.281×10^{26} (4) 5.9×10^{28}

24. In an element (X) number of electrons is 15 and number of neturons is 16. It reacts with hydrogen to form XH_3. What are the number of electrons present in its second shell and what is the nature of this element?

(1) 5, Metal (2) 8, Metal

(3) 8, Non-metal (4) 5, Non-metal

25. A metal sulphate 'x'on treatment with a weak base 'y' gives a dirty green colour precipitate 'z', which is insoluble in an excess of NaOH. Find out x, y and z.

(1) $CuSO_4, NH_4OH, (NH_4)_2SO_4$

(2) $Pb(NO_3)_2, KOH, Pb(OH)_2$

(3) $FeSO_4, NH_4OH, Fe(OH)_2$

(4) $FeCl_3, NH_4OH, Fe(OH)_2$

26. 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 C*l* 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

27. Which of the following is dominant character according to Mendel?

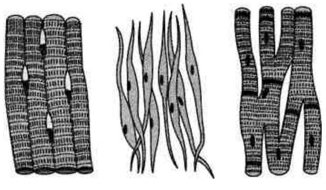
(1) Dwarf plant and yellow fruit

(2) Terminal fruit and wrinkled seed

(3) White testa and yellow pericarp

(4) Green coloured pod and rounded seed

28. Which of the following is an incorrect distinction between the three types of muscular tissue shown as A, B and C?



(A) (B) (C)

		A	B	C
(1)	Shape of muscle fibre	Cylindrical	Spindle shaped	Cylindrical
(2)	Striations	Present	Absent	Present
(3)	Branching in muscle fibre	Present	Absent	Present
(4)	Intercalated discs	Absent	Absent	Present

29. A layer of air known as the atmosphere surrounds the earth. The composition of the atmosphere can be changed by air pollution. Which of the following statements about air pollution are correct ?

(i) It affects the weather.

(ii) It covers the leaves of plants and limits photosynthesis.

(iii) It may cause breathing difficulties and diseases of the respiratory tract.

(iv) It is mostly caused by the burning of fossil fuels.

(1) (iii) and (iv) (2) (i), (ii) and (iii)

(3) (i), (iii) and (iv) (4) (i), (ii), (iii) and (iv)

30. Centrioles possess nine evenly spaced peripheral fibrils which are made up of protein

(1) Actin (2) Tubulin

(3) Keratin (4) Polyamine

31. 'X' and 'Y' are the two reproductive structures present in human females. 'X' is responsible for the nourishment of the developing embryo and 'Y' is the site of syngamy. 'X' and 'Y', respectively are

(1) Vagina and Uterus

(2) Ovary and Oviduct

(3) Oviduct and Uterus

(4) Uterus and Oviduct

32. Which of the following is the characteristic feature of angiosperm ?

(1) Vascular Bundles

(2) Seed formation

(3) Double fertilisation

(4) Differentiated plant body

33. Sodium taurocholate helps in the

(1) Emulsification of fat

(2) Digestion of proteins

(3) Absorption of carbohydrates

(4) Provide colour to urine

34. Ripening of fruit is controlled by

(1) Ethylene (2) Auxin

(3) Abscisic acid (4) Gibberellin

35. Which of the following are functions of the nervous system?

(i) Connecting different body parts and coordinating their functions.

(ii) Controlling actions of muscles and glands

(iii) Understanding changes or fluctuations in the internal body

(iv) Assisting to maintain homeostasis in internal environment.

Select the correct option from the following.

(1) (i) and (ii) (2) (i) and (iii)

(3) (i), (ii) and (iii) (4) (i), (ii), (iii) and (iv)

36. Consider the following statements.

(i) Grey matter surrounds the white matter in the brain.

(ii) Grey matter surrounds the white matter in the spinal cord.

(iii) White matter surrounds the grey matter in the spinal cord.

(iv) White matter surrounds the grey matter in the brain.

(1) (i) alone is correct

(2) (i) and (iii) are correct

(3) (i) and (iv) are correct

(4) (iv) alone is correct

37. All of the following regarding importance of photosynthesis is true except

(1) It purifies the atmospheric air by consuming CO_2 and evolving O_2.

(2) It converts light energy into chemical energy.

(3) It is the only source of ATP production by green plants for providing energy.

(4) It is an anabolic process in nature which provides food.

38. "The flow of matter in an ecosystem is cyclic". Who among the following if not present, makes the flow unidirectional?

(1) Producers (2) Consumers

(3) Scavangers (4) Decomposers

39. Identify X in the given flowchart

Severity of Disease depends upon

↓

X

↓ effecting

Immune system of body

(1) Size of microbe

(2) Type of microbe

(3) Number of microbes

(4) Shape of microbe

40. Insect pest attack plant by

(1) Cutting root,stem and leaf

(2) Suck cell sap from various parts of plants

(3) They bore into stem and fruits

(4) All of these

41. In how many ways can 576 be expressed as product of two distinct factors?

(1) 10 (2) 9 (3) 12 (4) 8

42. A big cube of side 8 cm is formed by rearranging together 64 small but identical cubes each of side 2 cm. Further, if the corner cubes in the topmost layer of the big cube are removed, what is the change in total surface area of the big cube?

(1) 16 cm^2, decreases

(2) 48 cm^2, decreases

(3) 32 cm^2, decreases

(4) remains the same as previously

43. If $(x + k)$ is a common factor of $(x^2 + px + q)$ and $(x^2 + \ell x + m)$, then the value of k is

(1) $\ell + p$ (2) $m - q$

(3) $\frac{\ell - p}{m - q}$ (4) $\frac{m - q}{\ell - p}$

44. A person invested some amount at the rate of 12% simple interest and some other amount at the rate of 10% simple interest. He received yearly interest of ₹ 130. But if he had interchanged the amounts invested he would have received ₹ 4 more as interest. How much amount did he invest at 10% simple interest?

(1) ₹ 700 (2) ₹ 500

(3) ₹ 800 (4) ₹ 400

45. If $0 < \theta < 90°$, then $(\sin\theta + \cos\theta)$ is :

(1) less than 1 (2) equal to 1

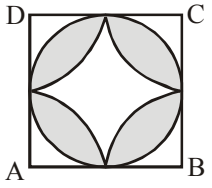
(3) greater than 1 (4) greater than 2

46. Three equal circles of unit radius touch each other. Then, the area of the circle circumscribing the three circles is

(1) $6\pi\ (2 + \sqrt{3})^2$ (2) $\frac{\pi}{6}(2 + \sqrt{3})^2$

(3) $\frac{\pi}{3}(2 + \sqrt{3})^2$ (4) $3\pi(2 + \sqrt{3})^2$

47. ABCD is a square. A circle is inscribed in the square. Also taking A, B, C, D (the vertices of square) as the centres of four quadrants, drawn inside the circle, which are touching each other on the mid-points of the sides of square. Area of square is 4 cm^2. What is the area of the shaded region?



(1) $\left(4 - \frac{3\pi}{2}\right)$ cm^2 (2) $(2\pi - 4)$ cm^2

(3) $(4 - 2\pi)$ cm^2 (4) none of these

48. Let T_r be the rth term of an A.P. for r = 1,2,3,..... If for some positive integers m, n we have $T_m = \frac{1}{n}$ and $T_n = \frac{1}{m}$ then T_{mn} equals

(1) $\frac{1}{mn}$ (2) $\frac{1}{m} + \frac{1}{n}$

(3) 1 (4) 0

49. A, B and C shoot to hit a target. If A hits the target 4 times in 5 trials, B hits it 3 times in 4 trials and C hits it 2 times in 3 trials. What is the probability that the target is hit by atleast 2 persons?

(1) $\frac{5}{6}$ (2) $\frac{3}{4}$

(3) $\frac{4}{5}$ (4) $\frac{1}{9}$

50. If ABC is a right angled triangle at B and M, N are the mid-points of AB and BC, then $4(AN^2 + CM^2)$ is equal to

(1) $4AC^2$ (2) $6AC^2$

(3) $5AC^2$ (4) $\frac{5}{4}AC^2$

51. The remainder when $(20)^{23}$ is divided by 17 is

(1) 11

(2) 3

(3) 6

(4) can't be determined

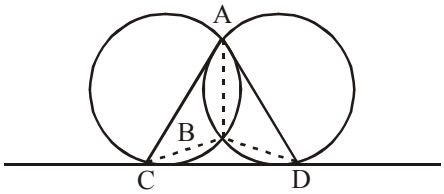
52. At the foot of mountain the elevation of its summit is 45°, after ascending 1000 m towards the mountain up a stop of 30° inclination, the elevation is found to be 60°. Find the height of the mountain :

(1) 1. 3 km (2) 1.366 km

(3) 2.72 km (4) none of these

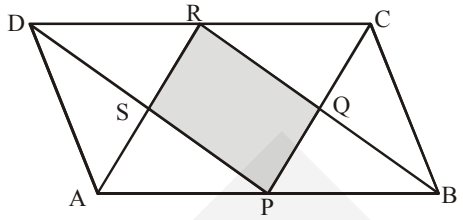
53. In the given figure, CD is a direct common tangent to two circles intersecting each other at A and B, then :

$\angle CAD + \angle CBD = ?$



(1) 120° (2) 90° (3) 360° (4) 180°

54. In the adjoining figure ABCD, P and R are the mid-points of the sides AB and CD. ABCD is a parallelogram. What is the ratio of the shaded to the unshaded region?



(1) 1/2 (2) 1/3

(3) 1/4 (4) none of these

55. If $\frac{x}{(b-c)(b+c-2a)} = \frac{y}{(c-a)(c+a-2b)} = \frac{z}{(a-b)(a+b-2c)}$, then the value of $(x + y + z)$ is

(1) a + b + c

(2) 0

(3) $a^2 + b^2 + c^2$

(4) can't be determined

56. The real values of a for which the quadratic equation $2x^2 - (a^3 + 8a - 1)x + a^2 - 4a = 0$ possesses roots of opposite signs are given by:

(1) $a > 6$ (2) $a > 9$

(3) $0 < a < 4$ (4) $a < 0$

57. If three positive real numbers a, b, c are in A.P. such that a.b.c. = 4, then the minimum value of b is :

(1) $2^{1/2}$ (2) $2^{1/3}$ (3) $2^{2/3}$ (4) $2^{3/2}$

58. A tank 4 m long and 2.5 m wide and 6 m deep is dug in a field 10 m long and 9 m wide. If the earth dugout is evenly spread over the field, the rise in level of the field will be :

(1) 80 cm (2) 75 cm (3) 60 cm (4) 30 cm

59. A medicine capsule is in the shape of a cylinder of diameter 0.5 cm with two hemispheres stuck to each of its ends. The length of the entire capsule is 2 cm. The capacity of the capsule is

(1) 0.33 cm^3

(2) 0.34 cm^3

(3) 0.35 cm^3

(4) 0.36 cm^3

60. If the system of equations, $x - ky - z = 0$, $kx - y - z = 0$, $x + y - z = 0$, has a non zero solution, then the possible values of k are :

(1) $-1, 2$ (2) $1, 2$

(3) $0, 1$ (4) $-1, 1$

61. Which of the following statement is wrong?

(1) Louis XVI upon his accession as the new king found an empty treasury. Long years of war had drained the financial resources of France. Added to this was the cost of maintaining an extravagant court at the immense palace of Versailles.

(2) Under Louis XVI, France helped the thirteen American colonies to gain their independence from the common enemy, Britain. The war added more than a billion livres to a debt that had already risen to more than 2 billion livres.

(3) Lenders who gave the state credit, now began to charge 20 percent interest on loans.

(4) So the French government was obliged to spend an increasing percentage of its budget on interest payments alone. To meet its regular expenses, such as the cost of maintaining an army, the court, running government offices or universities, the state was forced to increase taxes.

62. After French Revolution in France to qualify as an elector and then as a member of the Assembly, a man had to belong to the _____

A. Highest bracket of taxpayers.

B. Category of active citizen.

C. Nobility or Clergy.

D. Jacobins Club.

Select the right option :

(1) both A & B (2) both A & C

(3) both C & D (4) all A,B,C & D

63. The Paris Commune (1871) is popularly remembered _____ .

(1) for its association with the workers' red flag that was the flag adopted by the communards (revolutionaries) in Paris.

(2) for the 'Marseillaise', originally written as a war song in 1792, it became a symbol of the Commune and of the struggle for liberty.

(3) Both 1 & 2.

(4) None of the above.

64. Which of the fact about Russian Army is true ?

(1) The Imperial Russian army came to be known as the 'Russian steam roller'.

(2) It was the largest armed force in the world.

(3) When this army shifted its loyalty and began supporting the revolutionaries, Tsarist power collapsed.

(4) All of the above.

65. In March 1918, despite opposition by their political allies, the Bolsheviks made peace with Germany at _____.

(1) Brest Litovsk (2) Berlin

(3) Stalingrad (4) None of the above

66. _____, is the place of worship for people of Jewish faith.

(1) Synagogues

(2) Aynagogues

(3) Catholic Church

(4) Orthodox Church

67. Taungya cultivation was a system in which _____.

(1) local farmers were allowed to cultivate temporarily within a plantation.

(2) shifting cultivation was done mainly in Burma.

(3) rent was given for cultivation in Africa.

(4) none of the above.

68. **Assertion :** Till the middle of the eighteenth century the enclosure movement proceeded very slowly.

Reason : The early enclosures were usually created by individual landlords. They were not supported by the state or the church.

(1) Both 'A' and 'R' are true and 'R' explains 'A

(2) Both 'A' and 'R' are true but 'R' doesn't explain 'A'

(3) 'A' is true but 'R' is false

(4) 'A' is false but 'R' is true

69. The Habsburg Empire that ruled over Austria-Hungary, was a patchwork of many different regions and peoples. It included the Alpine regions- the Tyrol, Austria and the Sudetenland as well as Bohemia, where the aristocracy spoke _____language.

(1) German (2) Polish

(3) Magyar (4) Italian

70. In 1815, representatives of the European powers - Britain, Russia, Prussia and Austria, had collectively defeated Napoleon, met at Vienna to draw up a settlement for Europe. The Congress was hosted by the Austrian Chancellor Duke Metternich. The delegates drew up the Treaty of Vienna of 1815 with the objective of _____.

(1) Undoing most of the changes that had come about in Europe during the Napoleonic wars.

(2) Restore Bourbon dynasty.

(3) Create a new conservative order.

(4) All the above.

71. Agent Orange is a defoliant, a plant killer, so called because _____ .

(1) It was stored in drums marked with an orange band.

(2) It is of orange color.

(3) It was discovered by Dr. Orange Copolla.

(4) All the above

72. Match the following:

Column I	*Column II*
A. Treasure Island	1. Jane Austen
B. Ramona	2. Charlotte Bronte
C. Jane Eyre	3. Helen Hunt
D. Pride and Prejudice	4. R.L Stevenson

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

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

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

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

73. **Assertion (A) :** Stories about women in Vietnam showed their eagerness to join the army.

Reason (R) : They perceived the prison as their school, the sword- as their child, the gun- as their husband.

(1) A and R are true and R explains A.

(2) A and R are true but R does not explains A

(3) A and R are false

(4) A is true and R is false

74. The July 1830 revolution in France sparked an uprising in Brussels, which led to Belgium breaking away from the United Kingdom of _____ .

(1) Great Britain (2) Netherland

(3) Denmark (4) Austria

75. Which of the following statement is wrong?

(1) Every Londoner in the 1840's enjoyed an average space of 155 square yards while Bombay had a mere 9.5 square yards.

(2) By 1872, London had an average of 8 persons per house, the density in Bombay was as high as 20.

(3) Bombay and London both are well planned cities.

(4) More than 70 per cent of the working people lived in the thickly populated Chawls of Bombay.

76. With reference to International Date Line (IDL), consider the following statements:

1. A traveler crossing the IDL from east to west gains a day.
2. IDL is an imaginary straight line at 180 degree meridian.

Which of the statement(s) given above is/are correct?

(1) 1 only (2) 2 only
(3) Both 1 and 2 (4) Neither 1 nor 2

77. Consider the following states:

1. Bihar 2. West Bengal 3. Delhi

Which of the following is the correct sequence in terms of population density?

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

78. Consider the following statements :

1. A positive Southern Oscillation Index (SOI) indicates a good Indian monsoon.
2. A negative SOI is often seen in the El-Nino years.

Which of the statement(s) given above is/are correct ?

(1) 1 only (2) 2 only
(3) Both 1 and 2 (4) Neither 1 nor 2

79. With reference to plate margins, consider the following statements :

1. New oceanic crust is continuously formed at convergent plate margins.
2. At divergent plate margin, crust is neither created nor destroyed.

Which of the statement(s) given above is/are correct ?

(1) 1 only (2) 2 only
(3) Both 1 and 2 (4) Neither 1 nor 2

80. Which of these pairs about rivers and their tributaries are correctly matched ?

1. Purna : Narmada
2. Tungabhadra : Godavari
3. Betwa : Yamuna

Select the correct options with respect to the information given above.

(1) 1 only (2) 1 and 3 only
(3) 3 only (4) 2 and 3 only

81. Which National Highway connects Delhi and Mumbai?

(1) NH 6 (2) NH 8
(3) NH 10 (4) NH 12 B

82. Pick out the incorrect statement.

(1) India is the sixth largest country in terms of geographical area.
(2) India is the second largest country in terms of population.
(3) India is the seventh largest country in terms of geographical area.
(4) India ranks among the top ten countries in the world in terms of geographical area as well as population.

83. Consider the following statements regarding the Fundamental Rights under the Indian Constitution.

1. They are protected and enforced by the Constitution
2. They can be suspended only in the manner prescribed by the Constitution
3. The Supreme Court issues writs for the enforcement of Fundamental Rights.
4. They cannot be amended

Which of these statements are correct?

(1) 1 and 4 (2) 2 and 3
(3) 1, 3 and 4 (4) 1, 2 and 3

84. Match List – I (organisations and struggles) with List – II and select the correct answer using the codes given below the lists.

List-I		List-II	
1	Organisations that seek to promote the interests of a particular section or group	**a**	Movement
2	Organisations that seeks to promote common interest	**b**	Political parties
3	Struggles launched for the resolution of a social problem with or without an organisational structure	**c**	Sectional interest groups
4	Organisations that mobilise people with a view to win political power	**d**	Public interest groups

Choose the correct match –

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

85. Match the following:-

	Column I [State]		Column II [Parties]
(a)	Tamil Nadu	(i)	All India Anna DMK
(b)	Uttar Pradesh	(ii)	Rashtriya Lokdal
(c)	Karnataka	(iii)	Trinamool Congress
(d)	West Bengal	(iv)	Janata Dal (Secular)

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

86. Consider the following statements and identify the correct response from the given options:

Statement I: Decision of non-democratic governments can be very quick.

Statement II: It is not based on the idea of deliberation and negotiation in decision making.

(1) Statement I is true and II is false.
(2) Both statements I and statement II are true but statement II is not the correct explanation of statement I.
(3) Both statements I and statement II are true and statement II is the correct explanation of statement I.
(4) Both statements are false

87. Which of the following is/are examples of power sharing arrangement in India?

(I) There is a system of checks and balances among various institutions of the governments
(II) There is a division of powers involving higher and lower levels of governments
(III) Reserved constituencies in assemblies and the Parliament in the country
(IV) Political parties, pressure groups and movements control or influence those in power.

(1) Only (I) and (II) (2) Only II and III
(3) Only IV (4) All of the above

88. When we speak of gender divisions, we usually refer to:

(1) Biological difference between men and women
(2) Unequal roles assigned by the society to men and women
(3) Unequal child sex ratio
(4) Absence of voting rights for women in democracies

89. Which one of the following statements regarding the federal government is correct?

(1) Two or more levels of government
(2) In the federal system, the central government cannot order the state government to do something.
(3) State government has its own powers, separately answerable to the people.
(4) All of these

90. Read the following statement and select the right option.

Statement 1 : NHRC was set up in India in 1992.

Statement 2 : The commission is appointed by the President and includes retired judges, officers, and eminent citizens.

Statement 3 : The NHRC can make independent and credible inquiry into any case of violation of human rights.

Statement 4 : The NHRC can punish the guilty.

(1) Statements 1, 2 & 3 are true and statement 4 is false.
(2) Statement 1 & 4 are false and 2, 3 are true.
(3) Statement 1 is false and statements 2, 3 and 4 are true.
(4) All the above statements are true.

91. **Statement I:** Legal framework order that amended the constitution of Pakistan gave power to the President to dismiss national assembly and provisional assembly.

Statement II: National Security Council appointed by the President was dominatd by army officers take all major decisions.

(1) Both the statements are true
(2) Statement I is true, statement II is not true
(3) Statement I is not true, Statement II is true
(4) Both the statements are not true

92. **Statement I:** Very few election commissions in the world have such wide ranging powers as the election commission of India.
Statement II: When on election duty, all government officers work under the control of the EC and not the government.
(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

93. According to Dr. B.R. Ambedkar, which of the following is 'heart & soul' of our constitution?
(1) The Preamble
(2) Right to Equality
(3) Right against Exploitation
(4) Right to Constitutional Remedies

94. **Assertion (A):** The Indian Government, after independence, had put barriers to foreign trade and foreign investment.
Reason (R): It was considered necessary to protect the producers within the country from foreign competition.
Codes:
(1) Both A and R are true and R is the correct explanation of A
(2) Both A and R are true but R is not a correct explanation of A
(3) A is true but R is false
(4) A is false but R is true

95. Read the following statements :
Assertion (A): A cheque is a paper instructing the bank to pay a specific amount to the person in whose name the cheque has been made.
Reason (R): Cheques against demand deposits makes it difficult to directly settle payment without the use of cash.
(1) Assertion is wrong but the reason is right
(2) Assertion is right but the reason is wrong
(3) Both assertion and reason are wrong
(4) Both assertion and reason are right

96. **Assertion (A):** The production in Service Sector has increased the most in comparison to other sectors in India.
Reason (R): Not all the Services are growing equally well.
Answer Code
(1) Both A and R are true and R is the correct explanation of A.
(2) Both A and R are true but R is not a correct explanation of A.
(3) A is true but R is false.
(4) A is false but R is true.

97. The aim of WTO is
(1) to keep watch on trade of less developing countries
(2) to support only the least developed countries
(3) to promote trade in only developed countries
(4) to liberalize international trade

98. Which of the following is not a feature of MNC's?
(i) An MNC owns or controls production in more than one nation.
(ii) The goods and services are produced globally.
(iii) Production is organized in a complex way.
(iv) Most of the MNCs are investing in developed countries.
(1) Only (i) and (ii)
(2) Only (i), (ii) and (iii)
(3) Only (iii) and (iv)
(4) Only (iv)

99. Choose the incorrect statement :
(1) Markets do not work in a fair manner when producers are few and powerful.
(2) Large companies with huge wealth, power and reach can manipulate the market.
(3) Rampant food shortages, hoarding, black marketing, adulteration of food and edible oil gave birth to the consumer movement.
(4) None of these

100. The organisation which lays down standards of products at the international level is called,
(1) ISI (2) ISO
(3) ISRO (4) WCF