

SCHOLASTIC APTITUDE TEST (For Students of Class X)

Time: 90 Minutes Max. Marks: 100 समय: 90 मिनट INSTRUCTIONS TO CANDIDATES प्र

Read the following instructions carefully before you open the question booklet.

- 1. Answers are to be given on a separate answer sheet.
- There are 100 questions in this test. All are compulsory. The question numbers 1 to 40 belong to Sciences, 41 to 60 pertain to Mathematics and 61 to 100 are on Social Science subjects.
- Please follow the instructions given on the answer sheet for marking the answers.
- Write your seven-digit Roll Number as allotted to you in the admission card very clearly on the testbooklet and darken the appropriate circles on the answer shoet as per instructions given.
- Write down and darken Booklet Number in the appropriate circles on the answer sheet as per instructions given.
- Since the time allotted for this question paper is very limited and all questions carry equal marks, you should make the best use of it by not spending too much time on any one question.
- Rough work can be done anywhere in the booklet but not on the answer sheet/loose paper.
- 8. Every correct answer will be awarded one mark.
- THERE WILL BE A DEDUCTION OF 1/3 MARKS FOR EVERY WRONG ANSWER AND NO MARKS WILL BE DEDUCTED FOR UNATTEMPTED QUESTIONS.
- Please return only the answer sheet to the invigilator after the test.
- English version of the question paper will be considered as final in case of any dispute arising out of variation in translation.

Please turn over the page and start answering immediately after you are asked to do so.

Roll No.	रोल नम्बर	
Booklet Number	पुरितका संख्या	
15255	3	

शैक्षिक अभिक्षमता परीक्षा

(कक्षा X के विद्यार्थियों के लिए)

समयः ९० थिनट अधिकतम अंकः १००

परीक्षार्थियों के लिए अनुदेश

प्राप्त पुस्तिका खोलने से पहले, निम्न अनुदेशों को व्यान से पहिए।

- ठतर एक अलग उत्तर-घत्रक में देने हैं।
- इस प्रदेश में 100 प्ररूत हैं। सभी प्रस्त अतिवार्य हैं। प्ररूत 1 में 40 विज्ञान, 41 में 60 भण्डित और 61 से 100 सामाविक मिज़न के विषयों पर आभारित है।
- कृषय उत्तर विहित करने के लिए उत्तर-पत्रक पर दिए गए अनुदेशों का अनुपालन कीलिए।
- कृपया अपना मात-अंकीथ रोल चंबर, जैसा कि आपके प्रंतेश पत्र घर दिया गया है, अनुरेशनुसार प्रान-पुल्लिका और उत्तर-पात्रक पर बहुत स्पष्ट रूप से लिखिए और दिए गए उपयुक्त पोली को खाला कोनिए।
- कृपया उत्तर-प्रज्ञक में उपयुक्त खाने में निर्देशानुसार युस्तिका संख्या हिसिए।
- क्योंकि इस प्रदन पत्र के लिए निर्धारित समय बहुत सोवित है, इसलिए इसका अधिकलम उच्चोंग कोजिए और क्रिकी प्रवन पर बहुत स्वयं न लगाइए।
- रफ कार्य पुलिका में कहीं भी किया या सकता है, किन्तु उत्तर-प्रश्नाःअलग कागव पर नहीं।
- प्रत्येक सही उला का एक अंक प्रदान किया जाएगा।
- प्रायेक मलन उत्तर के लिए 1/3 अंक काटा जाएगा और किसी प्राप्त का उत्तर म देने पर उसके लिए कोई अंक पहें काटा जाएगा।
- कृषया परिक्षा के पत्रचार केवल उत्तर-पत्रक हो दिरीक्षक को वापस कर सीजिए।
- अनुसरित विवरण में अंतर से उठे किसो भी विवर की दिवति में, प्रमा धत्र के अंग्रेणी विवरण को निर्मातक नान लएगा।

कुपया पृष्ठ पलटिए और अपना कार्य तरना आरम्भ कीजिए

NCERT 2016

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NTSE STAGE_II SCHOLASTIC APTITUDE TEST (SAT)-2016

1.	Suppose a mutant of a perform	photosynthetic alga has d	lysfunctional mitochondri	a. It would affect its ability to
	(1) glycolysis	(2) anaerobic respiration	(3) aerobic respiration	(4) photosynthesis
2.	Cow has a special ston (1) absorb food in better (3) assimilate food in a	nach as compared to that manner better way	of a lion in order to : (2) digest cellulose pres (4) absorb large amount	ent in the food of water
3.	When touched, the leaf contact to the leaflets a (1) change in turgor pre (3) growth hormone reta	lets of Touch-me-not plant way. The leaflets are clos ssure ırdation	t are closed. Closing of le ed due to : (2) specialized proteins (4) capillary action	aflets starts from the point of
4.	Pancreas is composed (1) Only exocrine cells (3) Both endocrine and	of : exocrine cells	(2) Only endocrine cell (4) Nephrons	
5.	The human embryo get (1) Zygote	s nutrition from the mothe (2) Ovary	r blood with the help of a (3) Oviduct	special organ called : (4) Placenta
6.	Hormones produced in (1) muscles	one part of the organism r (2) bone	reach the distantly located (3) cartilage	d target via : (4) blood
7.	Which of the following a (1) Actively dividing cell (2) Actively dividing cell (3) Actively dividing cell (4) Actively dividing cell	are characteristic feature c s with dense cytoplasm th s with dense cytoplasm, tl s with little cytoplasm, thir s with thin cytoplasm, thin	of cells of meristematic tis nick cell wall and promine hin cell wall and no vacuo n cell wall and prominent n cell wall and no vacuole	ssue ? Int nuclei bles nuclei s.
8.	Which one of the follow (1) Whale	ing animals is different fro (2) Water snake	m other in not having the (3) Star fish	paired gill pouches ? (4) Sea horse
9.	In the symbiotic relation (1) bacteria provide N_2 at (2) roots provide NH_4 an (3) bacteria provide NH_2 (4) bacteria provide N_2 at	aship between a bacterium and the plant roots provide d bacteria provide Carbon and the roots provide Carl and the roots provide NH ₄	n and a root of legume the Carbon bon	ə:
10.	Which of the following i (1) Top level predators (2) Increase in carbon c (3) The green-house ef (4) Energy is lost at eac	s an result of biological ma may be harmed by toxic ch ioxide fect will be most significan ch tropic level of a food cha	agnification : nemicals in environment. ce at the poles ain	
11.	Which one of the follow (1) National parks and B (2) Wild animal in their (3) Inhabitants of natura (4) Conservation metho	ing signifies <i>ex situ</i> conse Biosphere habitats natural habitats al ecosystems ds practiced in Zoo and Bo	rvation ?	De
12.	What is the main reaso (1) Sunlight is complete (2) Radiation fails to es (3) Plant do not utilize s (4) Plants produce heat	n for increase in temperat ely absorbed by plants in t cape from the glass house sunlight in a glass house inside the glass house	ure in a glass house: he glass house e completely	



13. Match the items in column-I with those in column-II, and select the correct choice: Column-I Column-II A. Small pox I. Bacteria B. Cholera II. Virus C. Malaria III. Deficiency of minerals D. Anaemia IV. Female mosquito (1) A-IV. B-II. C-III. D-I (2) A-II, B-I, C-IV, D-III (3) A-IV, B-III, C-II, D-I (4) A-III, B-IV, C-I, D-II 14. In the experiment conducted by Mendel, RRyy (round green) and rrYY (wrinkled, yellow) seeds of pea plant were used. In the F₂ generation 240 progency were produced, out of which 15 progeny had specific characteristics. What were the characteristics ? (1) round and green (2) round and yellow (3) wrinkle and yellow (4) wrinkle and green Total number of neutrons in five moles of water molecules is : 15. (1) 3.011×10^{24} (2) 2.409 × 10²⁵ (3) 3.111 × 10²⁵ (4) 2.711 × 10²⁵ 16. The metal used to recover copper from an aqueous solution of copper sulphate is : (1) Na (2) Ag (3) Hg (4) Fe Four substance were thoroughly mixed with water separately to obtain mixtures A, B, C and D. Some 17. of their properties give below : I. Path of a beam of light passing throught it was visible in A, B and D but invisible in C. II. On leaving undisturbed, the particles of the substance settle down in A but not in B, C and D. III. The solute particles are visible to naked eve in A but invisible in B,C and D. Which of the following is correct about A,B,C and D? (1) A, B and D are colloids. C is a solution (2) A is a suspension. B and D are colloids. C is a solution (3) A is a colloid. B, C and D are solutions. (4) A is a suspension B, C and D are colloids 18. Assertion (A) : Aluminium foil cannot be used in α -particle scattering experiment. Reason (R): Aluminium is highly malleable metal. (1) Both A and R are correct. R is the correct reason for A. (2) Both A and R are correct but R is not the correct reason for A. (3) A is correct and R is incorrect. (4) A is incorrect and R is correct. 19. Magnesium ribbon is rubbed with sand paper before making it to burn. The reason of rubbing the ribbon is to : (1) remove moisture condensed over the surface of ribbon. (2) generate heat due to exothermic reaction (3) remove magnesium oxide formed over the surface of magnesium. (4) mix silicon from sand paper (silicon dioxide) with magnesium for lowering ignition temperature of the ribbon. 20. The reaction that differs from the rest of the reactions given is : (1) formation of calcium oxide from limestone (2) formation of aluminium from aluminium oxide (3) formation of sodium carbonate from sodium hydrogen carbonate (4) formation of mercury from mercuric oxide OF DETTER TOMOTTOW An element X reacts with dilute H₂SO₄ as well as with NaOH to produce salt and H₂(g). Hence, it may 21. be concluded that : I. X is an electropositive element. II. oxide of X is basic in nature. III. oxide of X is acidic in nature. IV. X is an electronegative element. (1) I, II, III (2) IV, I, II (3) III, IV, I (4) II, III, IV



22. An element X has electronic configuration 2, 8, 1 and another element Y has electronic configuration 2, 8, 7. They form a compound Z. The property that is not exhibited by Z is (1) It has high melting point. (2) It is a good conductor of electricity in its pure solid state. (3) It breaks into pieces when beaten with hammer. (4) It is soluble in water The compound containing both ionic and covalent bond is 23. (1) AlBr₂ (2) CaO (3) MgCl₂ (4) NH₄CI 24. The element that cannot be used as a reducing agent is (1) carbon (2) aluminium (3) sulphur (4) sodium 25. Somebody wanted to calculate the number of moles of oxygen atoms comprising of 9.033 × 10²³ number of its atoms. The person further thought to calculate its mass and to find the number of moles of hydrogen atoms required to combine completely with this amount of oxygen to form water. The number of moles of oxygen atoms, their mass (in grams) and the number of moles of hydrogen atoms are (1) 1.5, 3 and 24 respectively (2) 15. 18 and 3 respectively (3) 0.15, 27,3 respectively (4) 1.5, 24 and 3 respectively 26. The molecular formula of carboxylic acid that differs from the rest is $(1) C_{13} H_{26} O_{2}$ $(2) C_2 H_4 O_2$ $(3) C_0 H_{18} O_2$ $(4) C_7 H_{12} O_2$ 27. Foam of soap always appears white as (1) it contains large hydrocarbon chains. (2) it absorbs red portion of the visible light (3) it reflects light of all wavelengths. (4) it has one hydrophobic end, which is insoluble in water. 28. In a neon gas discharge tube, every second 4.8 × 10¹⁸ Ne⁺ ions move towards the right through a croos -section of the tube, while 'n' electrons move to the left in the same time. If the current in the tube is 1.12 amperes towards the right, n is equal to $(given e = 1.6 \times 10^{-19} coulomb)$ $(2) 2.2 \times 10^{18}$ (3) 2.4 × 10¹⁹ (1) 1.8 × 10¹⁸ (4) 2.8×10^{19} 29. Four situations are given below-I. An infinitely long wire carrying current II. A rectangular loop carrying current III. A solenoid of finite length carrying current IV. A circular loop carrying current. In which of the above cases will the magnetic field produced be like that of a bar magnet? (3) Only III (1)(2) I and III (4) Only IV 30. In the circuit diagram shown below, V_A and V_B are the potentials at points A and B respectively. Then, $V_{A} - V_{B}$ is 10Ω 20Ω A В 10 Ω 5Ω



γ

30 V

(4) 10V

31.	 Assertion (A) : Motion of a charged particle under the action of a magnetic field alone is always with constant speed. Reason (R) : The magnetic force does not have any component either along or opposite to the direction of motion of the charged particle (1) Both Assertion and Reason are true and the reason is the correct explanation of the assertion. (2) Both Assertion and Reason are true, but the reason is not the correct explanation of the assertion. (3) Assertion is a true statement, but Reason is false. (4) Both Assertion and Reason are false statements. 					
32.	When a charged pa change? I. mass II. charge III. velocity IV. momentum (1) II & III	rticle passes through an e (2) Only III	electric field, which an (2) III & IV	nong the following properties (4) I, III, & IV		
33.	A ray of light in air is incident on an equilateral glass prism at an angle θ_i to the normal. After refractive light travelled parallel to the base of prism and emerged in air at an angle θ_i to the normal. If the angle between the incident and the emergent rays is 60°, then the refractive index of glass with rest of air is					
34.	(1) 1.33 (2) 1.5 (3) 1.73 (4) 1.06 You are standing on the shore of a lake. You spot a fish swimming below the lake surface. You want t kill the fish first by throwing a spear and next, by pointing a high-power laser torch. How should you aim the spear and torch, respectively, from the options given below? I. above the apparent position of the fish II. below the appearent position of the fish II. directly at the apparent position of the fish (1) SPEAR : II ; (2) SPEAR : II ; (3) SPEAR : II ; (4) SPEAP : III					
35.	A beam of light coming from a rarer medium is partially reflected from the surface to a denser medium and partially refracted into the denser medium. If the reflected and the refracted rays are perpendicular to each other and the ratio of the refractive indices of denser and rarer medium is $\sqrt{3}$, the angle of refraction wi					
	be - (1) 60°	(2) 30°	(3) 45°	(4) 41.5°		
36.	A person can see cle who prescribed him it corrected the near the near point of his (1) 60 cm	early only the objects situa a lens of certain power to i r-sightedness. However, u vision has shifted from 5 (2) 100 cm	ted in the range 50 c ncrease the maximu upon using the presc 0 cm to a distance "c (3) 40 cm	n to 300cm. He went to an Optometist m distance of his vision to infinity , i.e., ribed lens the person discovered that d'. What is the value of d ? (4) 500 cm		
37.	A ball of mass m is the or hitting the ground	hrown from a height h with d be maximum?	a speed v. For what	initial direction of the ball will its speed		

- (1) horizontally (2) vertically downwards
- (3) at an angle of 45° from the vertical in the downward direction
- (4) speed does not depend on the direction in which the ball is thrown
- **38.** A beaker is filled with two non-mixing liquids. The lower liquid has density twice that of the upper one. A cylinder of height h floats with one-fourth of its height submerged in the lower liquid and half of its height submerged in the upper liquid. Another beaker is filled with the denser of the two liquids alone. If the same cylinder is kept in the second beaker, the height of the submerged position would be.
 - (1) h (2) $\frac{3h}{4}$ (3) $\frac{h}{2}$ (4) $\frac{h}{4}$



- A spring -loaded toy sits at rest on horizontal frictionless surface. When the spring releases, the toy breaks into three equal-mass pieces A, B and C, which slide along the surface. Piece A moves off in the negative x-direction, while piece B moves off in the negative y-direction. Which of the three pieces is moving the fastest?

 (1) A
 (2) B
 (3) C
 (4) They move with identical speeds
- **40.** A truck and a car of masses m_1 and m_2 respectively are moving with equal kinetic energies. Equal stopping forces are applied and they come to a halt after travelling further distances x_1 and x_2 respectively.

(1)
$$x_1 = x_2$$
 (2) $\frac{X_1}{X_2} = \frac{m_1}{m_2}$ (3) $\frac{X_1}{X_2} = \sqrt{\frac{m_1}{m_2}}$ (4) $\frac{X_1}{X_2} = \sqrt{\frac{m_2}{m_1}}$

41. On dividing a natural number by 13, the remainder is 3 and on dividing the same number by 21, the remainder is 11. If the number lies between 500 and 600, then the remainder on dividing the number by 19 is :

(1) 4 (2) 6 (3) 9 (4) 13

42. Expressing $0.\overline{34} + 0.3\overline{4}$ as a single decimal, we get

(1) 0.6788	(2) 0.689	(3) 0.6878	(4) 0.687

43. If the value of a quadratic polynomial p(x) is 0 only at x = -1 and p(-2) = 2, then the value of p(2) is (1) 18 (2) 9 (3) 6 (4) 3

44. The graphs of the equations x-y = 2 and kx + y = 3, where k is is a constant, intersect at the point (x, y) in the first quadrant, if and only if k is (1) equal to -1 (2) greater than -1 (3) less than 3/2 (4) lying between -1 and 3/2

45. If α and β are the roots of the quadratic equation $x^2 - 6x - 2 = 0$ and if

$a_n = \alpha^n - \beta^n$, then the	the value of $\frac{a_{10} - 2a_8}{2a_9}$		
(1) 6.0	(2) 5.2	(3) 5.0	(4) 3.0

46. If $S_1, S_2, S_3, \dots, S_r$ are the sum of first n terms of r arithmetic progression whose first terms are 1,2,3,and whose common differences are 1,3,5, respectively, then the value of $S_1 + S_2 + S_3 + \dots + S_r$ is

(1)
$$\frac{(nr-1)(nr+1)}{2}$$

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

47. A person walks towards a tower. Initially when he starts, angle of elevation of the top of tower is 30°. On travelling 20 metres towards the tower, the angle changes to 60°. How much more has he to travel to reach the tower ?

(1) $10\sqrt{3}$ metres (2) 10 metres (3) 20 metres (4) $\frac{10}{\sqrt{3}}$ metres



48. If $\operatorname{cosec} x - \sin x = a$ and $\operatorname{secx} - \cos x = b$, then :

> (1) $(a^2b)^{\frac{2}{3}} + (ab^2)^{\frac{2}{3}} = 1$ (2) $(ab^2)^{\frac{2}{3}} + (a^2b^2)^{\frac{2}{3}} = 1$ (3) $a^2 + b^2 = 1$ (4) $b^2 - a^2 = 1$

A calf is tied a rope of length 12m at a corner of a rectangular field of the dimensions 35m × 25m. If the 49. length of the rope is increased to 23 m, then the additional grassy area in which the calf can graze is :

(Take
$$\pi = \frac{22}{7}$$
)
(1) 280.0 m² (2) 300.0 m² (3) 302.5m² (4) 312.5 m²

50. If Anish is moving along the boundary of a triangular field of sides 35 m, 53m and 66m and your are moving along the boundary of a circular field whose area is double the area of the triangular field, then

the radius of the circular field is (Take $\pi = \frac{22}{7}$):

(1)
$$14\sqrt{3}$$
 m (2) $3\sqrt{14}$ m (3) $28\sqrt{3}$ m (4) $7\sqrt{3}$ m

51. A circular metallic sheet is divided into two parts in such a way that each part can be folded in to a cone. If the ratio of their curved surface areas is 1:2, the the ratio of their volumes is :

(1) 1:8 (2) 1:
$$\sqrt{16}$$
 (3) 1: $\sqrt{10}$ (4) 2:3

52. A solid metallic block of volume one cubic metre is melted and recast into the form of a rectangular bar of length 9 metres having a square base. If the weight of the block is 90 kg and biggest cube is cut off from the bar, then the weight of the cube is :

(1)
$$6\frac{1}{3}$$
 kg (2)

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

53. Two circles with centres P and R touch each other externally at O. A line passing through O cuts the circles at T and S respectively. Then, (1) PT and RS are of equal length (2) PT and RS are perpendicular to each other (3) PT and RS are intersecting (4) PT and RS are parallel

- 54. If in a triangle ABC, D is the mid-point of side BC, $\angle ADB = 45^{\circ}$ and $\angle ACD = 30^{\circ}$ then $\angle BAD$ and ∠ABC are respectively equal to : (3) 30°, 100° (4) 60°, 100° (1) 15°, 105° (2) 30°, 105°
- 55. Three circles with radii R₁, R₂ and r touch each other externally as shown in the adjoining figure. If PQ is their common tangent and $R_1 > R_2$, then which of the following relations is correct?



56. at P, side AB extended at Q and side AC extended at R. Then, AQ equals : (3) 6.5 cm (1) 7.0 cm (2) 7.5 cm (4) 15.0 cm



- **57.** The centre of the circle passing through the ponts (6, -6), (3, -7) and (3, 3) is (1) (3, 2) (2) (-3, -2) (3) (3, -2) (4) (-3, 2)
- **58.** If the line segment joining (2, 3) and (-1, 2) is divided internally in the ratio 3: 4 by the graph of the equation x + 2y = k, the value of k is

(1)
$$\frac{5}{7}$$
 (2) $\frac{31}{7}$ (3) $\frac{36}{7}$ (4) $\frac{41}{7}$

59. The mean of three positive numbers is 10 more than the smallest of the numbers and 15 less than the largest of the three. If the median of the three numbers is 5, then the mean of squares of the numbers is

(1)
$$108\frac{2}{3}$$
 (2) $116\frac{2}{3}$ (3) $208\frac{1}{3}$ (4) $216\frac{2}{3}$

60. Three dice are thrown simultaneously. The probability of getting a total of at least 5 of the numbers appearing on their tops is :

(1)
$$\frac{5}{54}$$
 (2) $\frac{7}{54}$ (3) $\frac{49}{54}$ (4) $\frac{53}{54}$

61. Match the following

Α.	Livre	I.	A tax levied by the Church
В.	Manor	li.	An estate of Lord's lands and his mansion
C.	Tithe T	III.	Tax to be paid directly to the state
D.	Taille	IV.	Unit of currency

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

62. Assertion (A) : After the 1905 revolution in Russia, Duma or the first elected consultative parliament came into existance.

Reason(R): The power of Tsar was curbed by it

- (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 the correct explanation of A
- (3) A is true and R is false
- (4) A is false and R is true
- 63. Arrange in correct chronological order

I. Dawes Plan

- II. Crashing of the Wall Street Exchange
- III. Birth of Weimar Republic
- IV. Creation of Gestapo (Secret State Police)
- (1) I, II, III, IV (3) IV, II, III, I
- ucating(2) |||, ||, ||, || (4) |||, ||, ||, ||
- 64. Assertion (A): Cricket as a game has, a long and strong rural connection. Reason (R): The time limit of a match and vagueness about the size of Cricket ground is a result of the rhythms of village life.
 - (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 the correct explanation of A
 - (3) A is true and R is false
 - (4) A is false and R is true



65.	 Assertion (A): In the 17th and 18th Century merchants from the towns in Europe started financing peasants and artisans in the country side for productton for them. Reason (R): In the urban centres powerful crafts and trade guilds with monopoly rights restricted the entry of new people into the trade. (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 correct explanation of A (3) A is True and R is False (4) A is False and R is True 						
66.	 Assertion (A): Colonial Forest Act changed the lives of villagers across the country Reason (R): Now the villagers could comfortably make use of the forest resources for everyday needs (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 the correct explanation of A (3) A is true and R is false (4) A is false and R is true 						
67.	Arrange the following I. Unification of Gern II. Beginning of Greek III. Unification of Italy IV. Vienna Peace Se (1) III, I, II, IV	events of nineteenth centu nany struggle for independence ttlements (2) IV, II, III, I	iry Europe in ascendin (3) I, III, IV, II	g order. (4) IV, II, I, III			
68.	Arrange the following I. Creation of Indo-Ch II. Formation of Com III. Paris Peace Treat IV. Declaration of inde (1) III, IV, II, I	events in descending orde ina union, munist Party in Vietnam y ependence by Ho Chi Minh (2) III, IV, I, 11	r with regard to Nation (3) I, II, III, IV	alist Movement in Indo-China. (4) I, II, IV, III			
69.	Find out the correct s I. The Rowlatt Act wa II. The Act was passe III. The Act allowed d IV. Protests against t (1) Only II and III are (3) Only III and IV are	statements with regard to F as passed in 1919 ad by Imperial Legislative C etention of Political prisone he Act led to Jallianwalla B correct e correct	Rowlatt Act. ouncil ers without trial for thre agh massacre in April (2) Only I and III are (4) Only I and II are	e years 1920. correct correct			
70.	Assertion (A): Popul in Britain Reason (R): 'Corn La (1) Both A and R are (2) Both A and R are (3) A is True R is Fals (4) A is False R is True	ation growth from the late e aws' introduced by the gove True and R is correct expla True but R is not correct ex se ue	ighteenth century, incr ernment helped in -red anation of A kplanation of A	eased the demand for food grains ucing the food prices.			

71. Match the fallowing

Α.	Galley	Ι.	Old name of Tokyo	
Β.	Edo	II.	Contained six sheets of text and wood cut or bet illustrations	ter tomorrow
C.	Vellum	111.	Metal Frame in which types are laid and the text composed	
D.	Diamond Sutra	IV.	A parchment made from skin of animals	

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



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72. Given below are statements regarding the course of development of Socialism in Europe. Arrange them in chronological sequence.

I. Socialists took over the government in Russia through the October Revolution.

II. Socialists and trade unionists formed a labour party in Britain and Socialist party in France.

III. The Russian Social Democratic Worker's Party was founded by Socialists who respected Marx's ideas.

IV. Socialists could not succeed in forming a government in Europe and governments continued to be run by conservatives, liberals and radicals.

V. Second International was formed to coordinate the efforts of socialists throughout Europe.

(1) V, III, II,IV,I (3) V, II, III, I, IV (2) I, II, III, IV, V (4) IV, V, III, I, II

- **73.** Hitler's ideology related to the geopolitical concept of Lebensraum, or living space implied:
 - (1) There was no equality between people, but only a racial hierarchy
 - (2) Only those species survived on earth that could adapt themselves to changing climatic conditions.
 - (3) New territories had to be acquired for settlement to increase the area of the mother country.

(4) An exclusive racial community of pure Germans to be created by physically eliminating all those who were seen as undesirable.

74. During the mid-eighteenth century

Assertion (A): Indian spinners and weavers were left without work and important centers of textile declined

Reason (R): Large number of people began boycotting British cloth and started adopting khadi.

- (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 the correct explanation of A.
- (3) A is true and R is false
- (4) A is false and R is true
- **75.** Assertion (A): Mahatma Gandhi called off the Civil Disobedience Movement and entered into a Pact with Irwin in 1931.

Reason (R): Industrial workers in Sholapur attacked structures that symbolized British rule.

(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 the correct explanation of A.
- (3) A is true and R is false
- (4) A is false and R is true
- **76.** Assertion (A): The latitudinal extent influences the duration of day and night, as one moves from south to north of India.

Reason (R): From Gujarat to Arunachal Pradesh there is a time lag of two hours.

- (1) Both A and R are true and 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
- 77. Assertion (A): Kharif crops are grown, with the onset of monsoon in different parts of India and harvested September-October.

Reason (R): Availability of precipitation due to the western temperate cyclones helps in growing of these crops.

- (1) Both A and R are true and R explains A
- (2) Both A and R are true but R does not explain A
- (3) A is true and R is false UCating for better
- (4) A is false and R is true



78. Arrange the shaded states shown on the map of India in descending order of population density and select the right code.



79. Which one of the following figure is showing the correct direction of movement of the South America plate?







- 80. Based on the data (elevation and latitude) provided below which of the following tourist center is most probably indicated? Elevation: 3500 meters - Latitude: 34°N
 (1) Shillong
 (2) Mussoorie
 (3) Kodaikanal
 (4) Leh
- 81. Keeping in mind the location of the following sanctuaries/ national parks of India, arrange them' from.south to north:
 (1) Periyar, (2) Dachiga.m, (3) gariska, (4) Kanha
- 82. Match list I (Revolution) with list II (Area) and select the correct answer using the codes given below :

(Re	List 1 evolution)		List II (Area)		
Α.	Blue	١.	Dairy development		
В.	Green	II.	Fisheries development	t	
C.	White	III.	Food production		
D.	Yellow	IV.	Silk production		
1) A-II,	B-III,C-IV,D-	-1	(2)A-III,IV,C-II,D-I	 (3) A-IV, B-II,C-I,D-III	(4) A-II,B-III,C-I,D-IV

- 83. Assertion (A) : The availability of water resources varies over space and time in India Reason (R) : Water availability is governed by variations in seasonal annual precipitation although water scarcity is aggravated by over-exploitation and unequal access to water among different social groups.
 (1) Both A and R are true and R explains A
 (3) A is ture and R is false
 (2) Both A and R are true but R does not explain A
 (3) A is ture and R is false
 (4) A is false and R is true
- 84. Match list I (Type of Resources) with list II (Basis of Classification) and select the codes given below :

	List I (Type of Resources)	List II (Basis of Classification	
A. .:	Biotic and abiotic	I.	Status of development
B.	Renewable and non- renewable	Ц. -	Origin
C.	Individual, community, national and international	111.	Ownership
D.	Potential, developed, stock and reserves	IV.	Exhaustibility

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

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

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

85. Which one of the following is the correct order of rivers from north to south ?
(1) Ravi, Chenab, Jhelum, Indus
(2) Indus, Jhelum, Chenab, Ravi
(3) Jhelum, Indus, Ravi, Chenab



В	List I (National lighways of India)	List II (Description)		
Α.	National Highway Number 1	1.	Covers most of Rajasthan	
В.	National Highway Number 15	II.	Known as Sher Shah Suri Marg -	
C.	National Highway Number 7	III.	Connects Delhi and Mumbai	
D.	National Highway Number 8	IV.	Is the longest National Highway	

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

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

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

- 87. Which of the following statement is not true to the context of Mawsynram?
 - (1) It is considered as the wettest place on the earth
 - (2) It possesses caves with stalagmites and stalactites
 - (3) It is located Very close to Cherrapunji
 - (4) It is located very close to the Myanmar border
- 88. Which one of the following facts about the shaded state shown below is incorrect?





- (1) Terrace cultivation is widespread in the hill areas
- (2) The state is a major producer of uranium
- (3) Population density is well below the national average
- (4) More than 80 per cent of the area has forest as the land cover



89.	The Tropic of Cancer (1) Only Malwa (3) Only Meghalaya	passes through which of	the following plateau ? (2) Only Chotanagpu (4) Both Malwa and 0	e following plateau ? (2) Only Chotanagpur (4) Both Malwa and Chotanagpur			
90.	 Assertion (A) : The Coriolis force is responsible for deflecting winds towards the right in the northern hemispere and towards the left in the southern hemisphere. Reason (R) : The pressure and wind system of any area depend on the latitude and altitude of the place. (1) Both A and R are true and 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 						
91.	Which of the following are true? I. Educational qualific II. Relevatn qualificat problems. III. Educated clected IV. It is casier for the V. It should be left to t of a candidate.	g argumnets against press cation will deprive illiterate ion for being elected repress represcntatives keep dist educated elected repress he voters to decide how m	cribing educational qualifier e citicens of the right to c esentatives is not education ance from the common presentatives to use power for much importance is to be	cation for elected representatives contest elections. ion but ability to address people's people. personal gains. given to educational qualification			
	(1) I, II and IV only	(2) I, III and V only	(3) I, IV and V only	(4) I, II and V only			
92.	Which of the followin Amcndment Act, 197 I. Integrity II. Secular III Socialist IV. Unity	ng terms were inserted i 6 ?	in the Preamble to the	Indian Constitution by the 42nd			
	(1) I, III and IV	(2) II and III	(3) I, II and III	(4) I, II and IV			
93.	Which of the followi matters of global imp (1) General Assembl (2) International Mone (3) Security Council of (4) World Bank	ing international institutio ortance ? y of the united Nations etary Fund of the United Nations	ns has a more democra	atic way of decision -making on			
94.	Which of the following factors have contributed to changes in the caste system? I. Economic development II. Language III. Education IV. Elections V. Region						
	(1) I, III, and IV	(2) II, IV and V	(3) II, III and IV	(4) I, III and V			
		Reso		ICE morrow			



95. Match List I with List II and select the answer using the codes given below.

	List 1	List II	
Α.	Supervises the overall functioning of all the political institutions in the country	I.	The Supreme Court
В.	Distributes and redistributes work to the ministers	II.	The President
C.	Ministers may have different views but have to own up every decision	III.	The Prime Minister
D.	Determines the constitutionality of any contentious action	IV.	The Cabinet
	1 ALE	AU 002 - 5120 - 5120 - 51	(c) 89702 (2008)

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

96. Calculate the female literacy rate from the given data.

Gender	Total Persons	Literate Person	S
Males	1200	1050	
Females	580	340	
Total	1780	1390	
32.5	(2) 19.1	(3) 58.6 (4) 28.3

97. Which of these activities contributes to India's national income?
I. Cooking at home
II. A teacher teaching his children at home
III. A doctor prescribing medicines in a clinic

IV. Cooking in a restaurant

- (1) I and II (2) II and III (3) III and IV (4) I and IV
- **98.** In an imaginary economy the monetary value of contributions of primary sector, public sector, secondary sector and service sector are Rs.100, Rs.25, Rs. 28 and Rs. 77 respectively. The gross domestic product of the cconomy is



99. Four families in a village, which has only a ration shop. have access to foodgrains as shown in the table. Identify_ the families that lack food security.

Family	Food requirement in kg	Food grain price / kg	Money available to each family for buying food grains	Possessing Ration card	
A	50	10	600	Yes	
В	30	10	330	No	
С	20	10	180	Yes	
D	40	10	400	Yes	
) A and B	(2)	B and C	;	(3) C and D	(4) D and A

100. Robinson Crusoe goes to sea with a net for fishing. Classify the factors of production and choose the - appropriate option given below.

ltem		Classification	
Ă,	Knowledge	I.	Physical
	of fishing	l i	Capital
В.	Net	II.	Labour
C.	Sea	III.	Human Capital
D,	Swimming	IV.	Land

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

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

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

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

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