

DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO.

NT (E)

NT – NOV, 2019

Marked Copy

EM

Medium : English

SCHOLASTIC APTITUDE TEST

Q. Booklet No. XXXXXX

Candidate's Roll Number

Paper – II

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Time allowed : 120 Minutes

Total Questions : 100

Maximum Marks : 100

**INSTRUCTION :** Please check that OMR Answer Sheet No. and Question Booklet No. match with each other. If they do not match immediately replace the Question Booklet and OMR Answer Sheet. Candidate should fill the correct Question Booklet No. in OMR Answer Sheet.

### Instructions to Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer sheet given, with a HB pencil. Read the Instructions printed on the OMR sheet carefully before answering the questions.

1. Please write your Roll No. very clearly (only one digit in one block) on the OMR Answer sheet as given in your admission card. Please see that no block is left unfilled and even Zeros are correctly transferred to the appropriate blocks on the OMR Answer sheet. For all the subsequent purposes, your Centre Code No. and other details shall remain the same as given on the Admission Card.
2. Paper-II (Scholastic Aptitude Test) consists of 100 questions (Q. Nos. 1 to 100).
3. All questions carry one mark each.
4. Since all questions are compulsory, do not try to read through the whole question paper before beginning to answer it.
5. Begin with the first question and keep trying one question after another till you finish all the questions.
6. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
7. Since the time allotted to the question paper is very limited, you should make the best use of it by not spending too much time on any question.
8. A blank page is provided for rough work at the end of question paper.
9. REMEMBER YOU HAVE TO SHADE ANSWERS ON A SEPARATE OMR ANSWER SHEET PROVIDED.
10. Answer to each question is to be indicated by SHADING the circle having the number of the correct alternative in the OMR Answer sheet from among the ones given for the corresponding question in the booklet.
11. Now turn to the next page and start answering the questions.
12. The OMR Answer sheet consists of two copies, the ORIGINAL COPY and the CANDIDATE'S COPY. Do not separate or displace them. Do not darken the bubbles in two copies of OMR Answer sheets separately. After the examination, you should hand over the original copy of OMR Answer sheet to the invigilator of the room and can take away the Candidate's copy of OMR Answer Sheet with them.
13. The candidate need not return this Question Paper booklet and can take it after completion of the examination. No candidate should leave the examination hall before the end of the examination.

**PAPER – II**  
**SCHOLASTIC APTITUDE TEST**  
**(Q. Nos. 1 to 100)**  
**Max. Marks : 100**

**Note :**

**(i)** Subjects, Total Questions of each subject and Marks allotted :-

(1)	Physics	13 Questions	13 Marks
(2)	Chemistry	13 Questions	13 Marks
(3)	Biology	14 Questions	14 Marks
(4)	Mathematics	20 Questions	20 Marks
(5)	History	12 Questions	12 Marks
(6)	Geography	12 Questions	12 Marks
(7)	Political Science	08 Questions	08 Marks
(8)	Economics	08 Questions	08 Marks

**(ii)** **SHADE** the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Booklet. For shading the circles, use a **HB pencil**.

## PHYSICS

1. Match the following :

List - P		List - Q	
A.	1 joule	1.	4 186 J
B.	1 WH	2.	$3.6 \times 10^6$ J
C.	1 kWh	3.	$10^7$ ergs
D.	1 calorie	4.	3.6 kJ

The correct match is

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

Question 1

2. **Assertion (A)** : The velocity of a particle may vary even when its speed is constant.

**Reason (R)** : The particle is moving in circular path.

- (1) **Both (A) and (R) are true and (R) is correct explanation to (A).**  
 (2) Both (A) and (R) are true, but (R) is not correct explanation to (A).  
 (3) (A) is true, but (R) is false.  
 (4) (A) is false, but (R) is true.

Question 2

3. A convex lens of focal length 20 cm is cut into two halves. Each of which is placed  $\phi$  5 mm and a point object placed at a distance of 30 cm from the lens as shown.

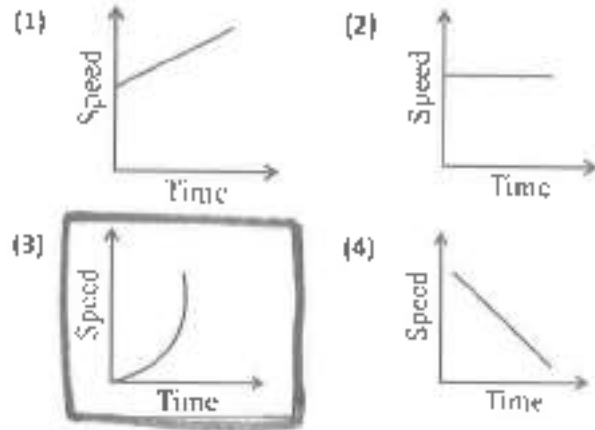


Then the image is at

- (1) 50 cm                      (2) 30 cm  
 (3) **60 cm**                    (4) 70 cm

Question Id : 3

4. Which of the following graph represents non-uniform acceleration ?



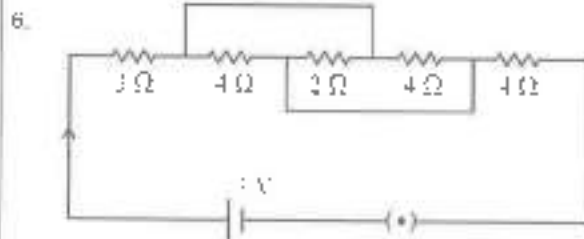
Question 4

**Assertion (A)** : Work done by gravitational force in a moving body path is independent.

**Reason (R)** : Gravitational force is non-conservative force.

- (1) Both (A) and (R) are true and (R) is correct explanation to (A).  
 (2) Both (A) and (R) are true, but (R) is not correct explanation to (A).  
 (3) **(A) is true, but (R) is false.**  
 (4) (A) is false, but (R) is true.

Question 5



Find the current flowing through the above circuit.

- (1) 0.374 A                      (2) **0.375 A**  
 (3) 3.74 A                        (4) 3.75 A

Question 6

Match the following .

Name of the Planet	Gravitation $m/s^2$
A. Earth	1. 25.95
B. Jupiter	2. 3.7
C. Saturn	3. 9.8
D. Mars	4. 11.8

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

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

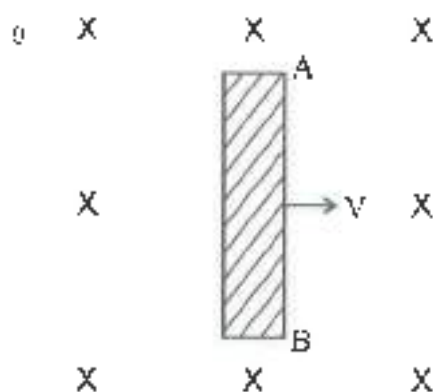
Question 7

9. Bulb 'P' marked as 100 W, 220 V and bulb Q marked as 60 W, 110 V. The resistance ratio of P and Q is

(1) **12 : 5** (2) 5 : 12

(3) 12 : 7 (4) 5 : 7

Question 8



As per the above figure

(1) Electric current flows along the rod from A to B.

(2) The rod AB is uniformly charged.

(3) **The end "A" of the rod becomes positively charged.**

(4) The end "B" of the rod becomes charged.

Question 9

10. A person fired a gun standing at a distance of 55 m from a wall. If the speed of sound is 330 m/s, the time for an echo heard is

(1) **0.3s** (2) 0.4s

(3) 0.5s (4) 0.6s

Question 10

11. The radius of curvature of a plano-convex lens which has 2 refractive index is 20 cm. By applying Silver Bromide on its surface to change it as a concave mirror, what is the focal length of the formed mirror ?

(1) **5 cm** (2) 20 cm

(3) 10 cm (4) 40 cm

Question 11

12. Identify the following colours in the ascending orders of their frequencies.

(1) Red, blue, yellow, green

(2) Blue, green, yellow, red

(3) Red, green, yellow, blue

(4) **Red, yellow, green, blue**

Question 12

13. A point object is placed at a distance of 10 cm and its real image is formed at a distance of 20 cm from a concave mirror. When the object is moved by 0.1 cm towards the mirror, then the image will be moved by about

(1) **0.4 cm away from the mirror**

(2) 0.4 cm towards the mirror

(3) 0.8 cm away from the mirror

(4) 0.8 cm towards the mirror

Question 13

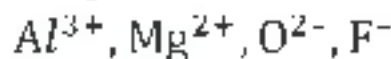
## CHEMISTRY

14. The allowable combinations of quantum numbers for each of the electron in 4s, 3p, 5d orbitals respectively

- (1)  $n = 4, l = 0, m_l = +1; n = 3, l = 2, m_l = -1; n = 5, l = 3, m_l = 0$   
 (2)  $n = 4, l = 0, m_l = 0; n = 3, l = 2, m_l = -1; n = 5, l = 3, m_l = 2$   
 (3)  $n = 4, l = 0, m_l = 0; n = 3, l = 1, m_l = 0; n = 5, l = 2, m_l = -1$   
 (4)  $n = 4, l = 0, m_l = 0; n = 3, l = 0, m_l = 0; n = 5, l = 1, m_l = 0$

Question 14

15. Find the correct increasing order of ionic radius among



- (1)  $F^{-} < Mg^{2+} < Al^{3+} < O^{2-}$   
 (2)  $Mg^{2+} < F^{-} < O^{2-} < Al^{3+}$   
 (3)  $Al^{3+} < Mg^{2+} < F^{-} < O^{2-}$   
 (4)  $Al^{3+} < Mg^{2+} < O^{2-} < F^{-}$

Question 15

16. Set of elements with the following atomic numbers belongs to the same group :

- (1) 9, 16, 35, 3      (2) 12, 20, 4, 38  
 (3) 11, 19, 27, 5      (4) 24, 47, 42, 55

Question 16

17. The elements A, B, C and D have atomic numbers 9, 10, 11 and 12 respectively. The correct order of ionization energy is

- (1)  $A > B > C > D$       (2)  $B > A > D > C$   
 (3)  $B > A > C > D$       (4)  $D > C > B > A$

Question 17

18. An atom 'A' belongs to III A group and another atom 'B' belongs to VI A group. The formula of the compound formed is

- (1)  $A_3B_6$       (2)  $A_2B$   
 (3)  $A_2B_3$       (4)  $A_3B_2$

Question 18

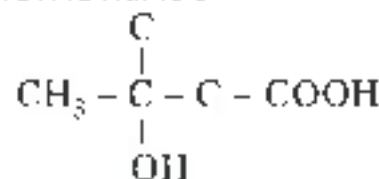
19. Find the correct matching

Bond	Bond Energy kJ/mol
A. H-F	1. 193
B. Br-Br	2. 366
C. H-Cl	3. 432
D. H-Br	4. 436

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

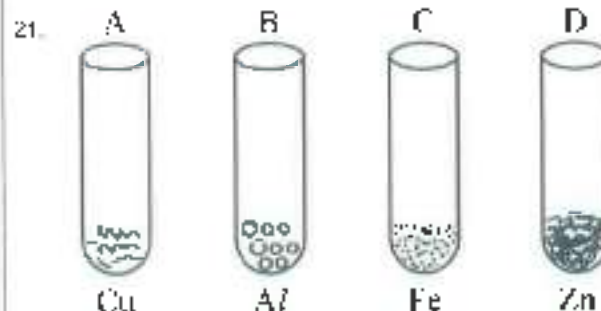
Question 19

20. IUPAC Name of



- (1) 3-3 diethyl Butane  
 (2) 2-Hydroxy - 2 Methyl - Butane  
 (3) 3-Hydroxy - 3 Methyl - Butanoic acid  
 (4) 3-Ethyl - 2 Methyl - Propane

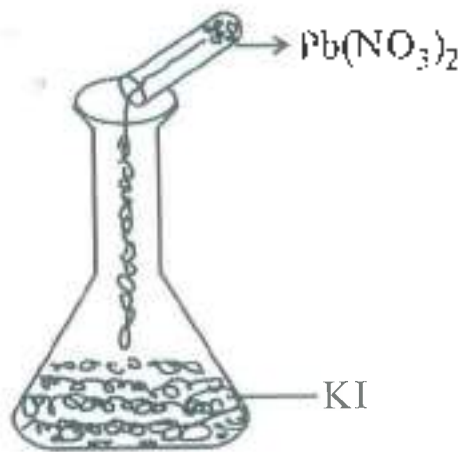
Question 20



If we added  $FeSO_4$  to above four test tubes, in which test tube we observe black residue ?

- (1) "A" and "B"      (2) "A" and "C"  
 (3) "B" and "C"      (4) "B" and "D"

Question 21



From the above experimental set-up, what precipitate we obtain and what is the colour of obtained precipitate ?

- (1) Lead Iodide - Yellow  
 (2) Potassium Nitrate - Yellow  
 (3) Lead Iodide - Red  
 (4) Potassium Nitrate - Red

Ques No. 22

23. Find the composition of Stainless Steel.

- (1) Fe, Cr, Ni  
 (2) Fe, Ni, Cu  
 (3) Fe, Cr, Cu  
 (4) Fe, C, Ni

Ques No. 23

24. Electro-negativity of the following elements increase in the order :

- (1) C, N, Si, P  
 (2) N, Si, C, P  
 (3) Si, P, C, N  
 (4) P, Si, N, C

Ques No. 24

25. Match the following :

List - P		List - Q	
A. Ethane	1	2 sp carbons	
B. Ethylene	2	6 sp <sup>2</sup> carbons	
C. Acetylene	3	2 sp <sup>3</sup> carbons	
D. Benzene	4	2 sp <sup>3</sup> carbons	

The correct answer is

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

Ques No. 25

26. **Assertion (A)** : Isotopes are electrically neutral  
**Reason (R)** : Isotopes are species with same mass number but different atomic number.

- (1) Both (A) and (R) are true and (R) is the correct explanation to (A).  
 (2) Both (A) and (R) are true, but (R) is not the correct explanation to (A).  
 (3) (A) is true, but (R) is false.  
 (4) (A) is false but (R) is true.

Ques No. 26

## BIOLOGY

27. In a living cell the fluid present inside the Nucleus called as

- (1) Cytoplasm (2) Protoplasm  
(3) Endoplasm (4) Nucleoplasm

Question 27

28. The scientific name of Human is "Homo sapiens". In this the word "Sapiens" represents

- (1) Species (2) Genera  
(3) Class (4) Family

Question 28

29. In animal kingdom, the first organism possessing back bones :

- (1) Amphibians (2) Fishes  
(3) Aves (4) Reptiles

Question 29

30. In human eye, the cornea formed from

- (1) Sclera (2) Choroid  
(3) Retina (4) Iris

Question 30

31. One of the following digestive juices which contains no enzyme :

- (1) Amylase (2) Lipase  
(3) Bile (4) Trypsin

Question 31

32. If you think chest cavity is a room, in this the diaphragm may be

- (1) Roof (2) Floor  
(3) Walls (4) Windows

Question 32

33. The enzyme thrombokinas released by

- (1) Red blood cells (2) White blood cells  
(3) Plasma (4) Platelets

Question 33

34. Match the item in Column - I with Column - II

Column - I	Column - II
A. Plants Excrete-Maternal	1. Tears
B. Animals Excrete-Maternal	2. Saliva
C. Plants Secretion	3. Falling of leaves
D. Animals Secretion	4. Gums

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

Question 34

35. Nodes of Ranvier absent in

- (1) Mylenated Neurons  
(2) Sensory Neurons  
(3) Motor Neurons  
(4) Non-Mylenated Neurons

Question 35

36. Parthenogenesis is

- (1) Asexual Reproduction  
(2) Sexual Reproduction  
(3) Artificial Propagation  
(4) Natural Propagation

Question 36

37. The hormone "Ghrelin" is secreted by

- (1) Wall of the Stomach  
(2) Wall of the Intestine  
(3) Wall of the Esophagus  
(4) Salivary Glands

Question 37

38. One of the following is not related to "Pea" plant .

- (1) Presence of bisexual flowers  
(2) It is a biennial plant.  
(3) It prefers self fertilization,  
(4) It has well defined characters.

Question 38

39. Ecological pyramid was first introduced by

- (1) Darwin (2) William Elton  
(3) Charles Elton (4) Mendel

Question 39

40. Find out the Renewable Resource.

- (1) Coal
- (2) Petrol
- (3) Water
- (4) Natural Gas

Question Id : 40



# MATHEMATICS

41. The '0' term from the end of the A.P.

5, 12, 19, ..... 173 is

(1) 96 (2) 103

(3) **110** (4) 117

Question 41

42. If  $\Delta ABC$  is an equilateral triangle such that  $AD \perp BC$ , then  $AD^2 =$

A.  $\frac{3a^2}{4}$  B.  $\frac{3a^2}{2}$  C.  $\frac{3}{4}BC^2$  D.  $\frac{\sqrt{3}}{2}a$

(1) A (2) B and C

(3) D (4) **A and C**

Question 42

43. If -2 is a root of the quadratic equation  $x^2 - px + 6 = 0$  and  $x^2 + px - k = 0$  has equal roots, then the value of k is

(1) 6 (2) 10

(3) **14** (4) 18

Question 43

44. Metallic spheres of radii 15 cm, 20 cm, and 25 cm respectively are melted to form a single solid sphere. Then the radius of the resulting sphere is

(1) 20 cm (2) 25 cm

(3) **30 cm** (4) 35 cm

Question 44

45. If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $P(x) = x^2 + qx - p$ , then the value of  $\frac{1}{\alpha} + \frac{1}{\beta}$  is

(1)  $\frac{p}{q}$  (2)  **$\frac{q}{p}$**

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

Question 45

46. If  $\cos \theta = \frac{a}{b}$  then  $\operatorname{cosec} \theta + \cot \theta$  in terms of

a and b is

(1)  **$\sqrt{\frac{b+a}{b-a}}$**

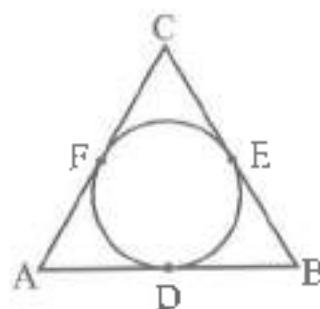
(2)  $\sqrt{\frac{a+b}{a-b}}$

(3)  $\sqrt{\frac{b-a}{b+a}}$

(4)  $\sqrt{\frac{a-b}{a+b}}$

Question 46

47. In the adjacent figure if  $AB = 10$  cm,  $BC = 12$  cm and  $AC = 14$  cm, then  $AD =$



(1) 5 cm

(2) **6 cm**

(3) 7 cm

(4) 8 cm

Question 47

48. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $P(x) = x^2 + 3x + k$  such that  $\alpha - \beta = 5$ , then the value of k is

(1) 2

(2) -3

(3) **-4**

(4) 5

Question 48

49. The sum of a number and its reciprocal is  $2\frac{1}{6}$  then the number is

(1)  $\frac{5}{6}$  or  $\frac{6}{5}$

(2)  $\frac{4}{5}$  or  $\frac{5}{4}$

(3)  $\frac{3}{4}$  or  $\frac{4}{3}$

(4)  **$\frac{2}{3}$  or  $\frac{3}{2}$**

Question 49

50. Match the item in Column - I with Column - II.

Column - I

- A. Slope of  $y$ -axis  
 B. Slope of  $x$ -axis  
 C. Distance between the points  $(\cos 55^\circ, 0)$  and  $(0, \sin 35^\circ)$

Column - II

1.  $\sec 0^\circ$   
 2.  $\sin 0^\circ$   
 3.  $\cot 0^\circ$

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

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

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

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

Question 50

51. If  $\frac{x-y}{xy} = 5$  and  $\frac{x+y}{xy} = 7$ , then the value

of ' $x$ ' is

(1) 1

(2)  $\frac{1}{2}$

(3)  $\frac{1}{3}$

(4)  $\frac{1}{6}$

Question 51

52. If the points  $(a, 2a)$ ,  $(3a, 3a)$  and  $(3, 1)$  are collinear then the value of ' $a$ ' is

(1)  $-\frac{1}{3}$

(2)  $-\frac{2}{3}$

(3)  $-\frac{1}{2}$

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

Question 52

53. A copper sphere of radius 3 cm is melted and recast into a right circular cone of height 3 cm. Then the radius of the base of the cone is

(1) 3 cm

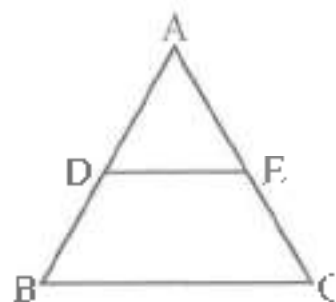
(2) 4 cm

(3) 5 cm

(4) 6 cm

Question 53

54. From the adjacent figure  $\triangle ABC$ ,  $DE \parallel BC$  and  $AD = \frac{1}{2} BD$ . If  $BC = 6$  cm then  $DE$  is



(1) 1.5 cm

(2) 2 cm

(3) 3 cm

(4) 4 cm

Question 54

55. Which of the following statement is not correct?

(1) If  $\alpha, \beta$  are the zeroes of the quadratic polynomial  $x^2 - 2x + 1$ , then  $\alpha^3 + \beta^3 = 2$ .

(2) If the pair of linear equations  $4x + 5y = 9$  and  $8x + ky = 18$  has infinitely many solutions, then  $k = 10$ .

(3) If  $\tan \theta + \cot \theta = 5$ , then  $\tan^2 \theta + \cot^2 \theta = 23$ .

(4) The line  $\operatorname{cosec} 60^\circ x + \cos 45^\circ y = 4$  passing through the point  $(\tan 60^\circ, \sec 45^\circ)$ .

Question 55

56. The solution of the line equation  $\cos 30^\circ x + \sin 30^\circ y = 3$  is

A.  $(2, 3)$  B.  $(0, 6)$  C.  $(2\sqrt{3}, 0)$  D.  $(0, 2\sqrt{3})$

(1) A

(2) B and C

(3) C and D

(4) A and D

Question 56

57. If two positive integers 'a' and 'b' are expressible in the form of  $a = p^3q^2$  and  $b = p^2q^4$ , p and q being prime numbers, then LCM (a, b) is

(1)  $p^2q^3$                       (2)  $p^3q^3$

(3)  $p^2q^4$                       (4)  $p^3q^4$

Question 37

58. If AP is a tangent to the circle with centre 'O' such that  $OP = 4$  cm and  $\angle OPA = 60^\circ$ , then the radius of the circle is

(1) 2 cm                          (2)  $2\sqrt{2}$  cm

(3) 3 cm                          (4)  $2\sqrt{3}$  cm

Question 38

59. 20 cards numbered 1, 2, 3 ..... 20 are put in a box and mixed thoroughly. One person draws a card from the box, the probability that the number on the card is divisible by 2 and 3 both is

(1)  $\frac{1}{10}$

(2)  $\frac{3}{20}$

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

(4)  $\frac{3}{10}$

Question 39

60. If the mean of first 'n' natural numbers is  $\frac{6n}{11}$

then n =

(1) 9                                  (2) 10

(3) 11                                (4) 12

Question 40

## HISTORY

61. Eric Hobsbawm, a historian, called the 20<sup>th</sup> century "the age of extremes". This is not the reason for that statement.

- (1) Great Depression
- (2) Occurred two world wars
- (3) Women got their right to vote
- (4) **Established colonies**

Question 61

62. Match Column - I with Column - II and select the correct answer using the codes given below the columns.

Column - I		Column - II
A. Bolsheviks	1.	Mussolini
B. Mensheviks	2.	Hitler
C. Nazism	3.	Lenin
D. Fascism	4.	Kerensky

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

Question 62

63. Arrange the following events in chronological order regard to Germany :

- i. Proclamation of the Weimar Republic.
- ii. Hitler becomes Chancellor of Germany.
- iii. Germany invades Poland.
- iv. Germany invades the USSR.

- (1) **i, ii, iii, iv**      (2) iv, iii, ii, i  
 (3) i, iii, ii, iv      (4) ii, i, iii, iv

Question 63

64. Which is not the main principle of United Nations Organization ?

- (1) Preserve peace
- (2) Uphold human rights
- (3) Promote social progress
- (4) **Achieve equality among different countries**

Question 64

65. The French were keen to develop Vietnam as an exporter of Rice. For this purpose they did not adopt this strategy.

- (1) Improving irrigation network
- (2) Encouraging landlords.
- (3) **Taken up of land reforms**
- (4) Facilitating marketing of agricultural produce like rice & rubber

Question 65

66. Consider the following statements :

A. In 1937 the Muslim League got only 4.4 percent of the total Muslim votes.

B. In 1946 when elections were held again for the provincial and central assemblies, the Muslim League succeeded in winning the Muslim seats decisively.

C. It was occurred by sensitive response of Congress Party with Muslims.

Which of the statements given above are correct ?

- (1) A, B & C      (2) **A & B only**  
 (3) B & C only      (4) A & C only

Question 66

67. Match Column - I with Column - II and select the correct answer using the codes given below the columns.

Column - I		Column - II
A. Spain	1.	Mexico
B. Belgium	2.	Congo
C. Portugal	3.	Brazil
D. Britain	4.	Nigeria

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

Question 67

68. Arrange the following events in correct chronological order with regard to Indian National Movement :

- A. Quit India Movement
- B. Three member Cabinet Mission came to India
- C. Direct Action Day
- D. Cripps Mission came to India

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

Question 68

69. Which statement is incorrect with regard to "Tebhaga" Movement ?

- (1) This agitation was started in Bengal.
- (2) This movement was led by Provincial Kissan Sabha.
- (3) Bigger Landlords participated in this movement.
- (4) This movement about to tenancy reforms.

Question 69

70. In March 1945, the US President, Harry Truman, said 'we have emerged from this war as the most powerful nation in the world-the most powerfu' nation, perhaps, in all history'. This is not reason for this statement.

- (1) Infact the Second World War helped USA grow out of its economic misery caused by the Great Depression.
- (2) Far from the theatres of war, the industries and agriculture of USA prospered.
- (3) This ensured full employment and high productivity in US during the Second World War.
- (4) Only villages of USA had been completely destroyed.

Question 70

71. The "Zollverein" is known as

- (1) Tax
- (2) Customs Union
- (3) Administrative Union
- (4) Religious Union

Question 71

72. The following regional military and strategic alliances given below, is not related to U.S.A

- (1) NATO
- (2) SEATO
- (3) CENTO
- (4) WARSAW

Question 72

## GEOGRAPHY

73. Kudremukh is an important Iron ore mine of  
(1) Kerala (2) Madhya Pradesh  
(3) **Karnataka** (4) Andhra Pradesh

Question 73

74. The ocean beds are rich in  
(1) Iron (2) Gold  
(3) Copper (4) **Manganese**

Question 74

75. Which of the following is not true with reference to the climatic condition required for the cultivation of rice ?

- (1) It requires high temperature i.e. above  $25^{\circ}\text{C}$ .  
(2) It requires high humidity.  
(3) It requires annual rainfall above 100 cm.  
(4) **It requires 210 frost free days.**

Question 75

76. Which of the following is the correct statement?

I. The peninsular plateau is one of the most ancient land blocks on the earth's surface.

II. One of the remarkable features of the peninsular plateau is black soils formed due to volcanic activity.

- (1) Only I is true (2) Only II is correct.  
(3) **I and II are correct.**  
(4) I and II are incorrect.

Question 76

77. Which of the following is not correct regarding 'Jet Streams' ?

- (1) **Jet streams develops at about  $35^{\circ}\text{N}$ .**  
(2) These are fast flowing air currents in a narrow belt in the upper atmosphere.  
(3) These causes the neighbouring atmosphere cool.  
(4) These causes rain from clouds.

Question 77

78. Which of the following statements is not true regarding India's climate ?

- (1) The climate of India is described as the monsoon type.  
(2) India's climate has characteristics of tropical as well as subtropical climate.  
(3) The climate of India is strongly influenced by trade winds.  
(4) **The North-East monsoons are responsible for most of the rainfall in India.**

Question 78

79. Which of the following lakes is a fresh water lake ?

- (1) **Dal** (2) Pulicat  
(3) Chilka (4) Sambhar

Question 79

80. Match the following :

Column - I	Column - II
A. Loo	1. Coromandel Coast
B. Mango Showers	2. Andhra Pradesh
C. Winter rainfall	3. Dry and hot winds
D. Upper air currents	4. Jet Streams

- Which is the correct set ?

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

Question 80

81. Population Change in a place is
- (1)  $(\text{No. of births} + \text{No. of in migrants}) - (\text{No. of deaths} + \text{No. of out migrants})$
  - (2)  $(\text{No. of births} - \text{No. of in migrants}) - (\text{No. of deaths} + \text{No. of out migrants})$
  - (3)  $(\text{No. of births} + \text{No. of in migrants}) + (\text{No. of births} + \text{No. of out migrants})$
  - (4)  $(\text{No. of births} - \text{No. of in migrants}) - (\text{No. of births} - \text{No. of out migrants})$

Question 81

82. Statement I : Density of population in North-East states is less due to heavy rainfall.  
Statement II : Density of population in Kerala is high due to flat surface fertile soil and abundant rainfall.
- (1) Both I, II are true. (2) Both I, II are false.
  - (3) I is true, but II is false.
  - (4) I is false, but II is true.

Question 82

83. Which is correct regarding Rural - Urban migration ?
- a. Migration mainly due to insufficient employment opportunities in rural areas.
  - b. Migration does not necessarily involve movement of all members of the family.
  - c. They have greater exposure to new ideas in cities and try to challenge older notions in village.
- (1) a, b, c
  - (2) b, c
  - (3) a, b
  - (4) None of these

Question 83

84. Among the following statements, which is not true ?

- (1) The portion of range found south of the Greater Himalayas is known as 'Lesser Himalayas'.
- (2) Himachal range is mainly composed of highly compressed rocks.
- (3) The average elevation of Himachal range is about 6,100 mts. above MSL.
- (4) The Pirpanjal and Mahabharata ranges form the important ranges of the Himachal.

Question 84

## POLITICAL SCIENCE

- 85 With reference to the Fundamental Rights, consider the following statements :
- (A) Indian Constitution guarantees Fundamental Rights to its citizen
- (B) Fundamental Rights are absolute and never suspended.
- Which of the statement/s given above is/are correct ?

- (1) Both (A) & (B)      (2) (A) only
- (3) (B) only              (4) Neither (A) Nor (B)

Q. 85: 10

- 86 Match Column - I with Column - II and select the correct answer using the codes given below the columns.

Column - I	Column - II
Political Party	State
A. SAD	1. Uttar Pradesh
B. DMK	2. Assam
C. AGP	3. Tamil Nadu
D. BLD	4. Punjab

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

Q. 86: 10

- 87 Which of the following statement is incorrect regarding with first general elections of India ?

- (1) Symbols were introduced.
- (2) Separate ballot boxes for each candidate.
- (3) Massive campaign to encourage the voters.
- (4) Only 10% of the population could vote in that elections.

Q. 87: 10

- 88 With reference to democracy, consider the following statements :

(A) In a democracy, only leaders elected by people should rule the country.

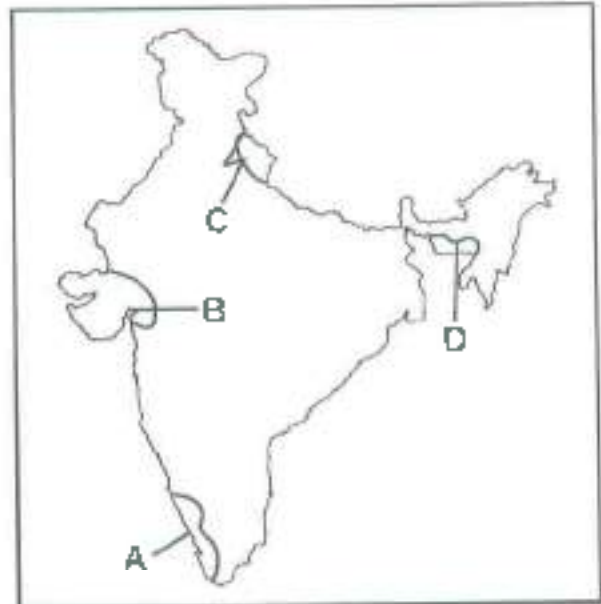
(B) People have the freedom to express views, freedom to organize and freedom to protests.

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

- (1) Both (A) & (B)      (2) (A) only
- (3) (B) only              (4) Neither (A) nor (B)

Q. 88: 10

- 89 Observe the map given below :



Identify the pointed States with their corresponding Social and Environment Movements and select the correct option using the codes given below.

- (1) A - Narmada Bachao Andolan, B - Silent Valley Movement, C - Chipko Movement, D - Meira Paibi Movement
- (2) A - Silent Valley Movement, B - Chipko Movement, C - Narmada Bachao Andolan, D - Meira Paibi Movement
- (3) A - Silent Valley Movement, B - Narmada Bachao Andolan, C - Chipko Movement, D - Meira Paibi Movement
- (4) A - Chipko Movement, B - Narmada Bachao Andolan, C - Silent Valley Movement, D - Meira Paibi Movement

Q. 89: 10



90. What type of information is not accessible to the citizen as per RTI ?

- (1) The manner of executions of subsidy programmes, including amounts allocated.
- (2) The particulars of its organization, functions and duties.
- (3) The powers and duties of its officers and employees.
- (4) Endanger the life or physical safety of a person.

Question 90

91. Observe the given 'Logo' and answer the question.



This 'Logo' represents to

- (1) United Nations Organisation
- (2) United Nations Children's Fund
- (3) United Nation Educational, Scientific and Cultural Organisation
- (4) United Nations Human Rights Commission

Question 91

92. Which of the following statement is correct regarding with "Coalition Government" ?

- (1) Power shared among different organisations of Government.
- (2) Power shared among Governments at different levels.
- (3) Power shared by two or more political parties.
- (4) Power shared by different social groups.

Question 92

## ECONOMICS

93. For calculating Body Mass Index (BMI), weight of the person is divided by the
- (1) Square of the weight
  - (2) Square of the height
  - (3) Square root of the height
  - (4) Square of the sum of height and weight

Question 93

94. In the rural areas, the unorganised sector mostly comprises of
- (i) Landless agricultural labourer.
  - (ii) Garment makers.
  - (iii) Street vendors.
  - (iv) Sharecroppers and artisans
- (1) (i) and (ii)                      (2) (ii) and (iii)  
(3) (iii) and (iv)                    (4) (i) and (iv)

Question Id : 94

95. Terms of credit does not include
- (1) Interest rate                      (2) Collateral
  - (3) Cheque
  - (4) Mode of repayment

Question 95

96. Choose the wrong pair from given below.
- (1) Per capita income - World Bank
  - (2) Human Development Index - UNDP
  - (3) Per capita income US \$ 12,600 and above - rich countries.
  - (4) Per capita income US \$ 1,035 and above - low countries

Question 96

97. Which of the following are correct regarding WTO ?

(i) Its main aim is to liberalise international trade.  
(ii) It was started at the initiative of the developed countries.  
(iii) The rules of WTO are framed to favour the developing countries.  
(iv) It establishes rules regarding international trade.

- (1) Only (i), (ii) and (iv)            (2) Only (ii) and (iii)  
(3) Only (iii) and (iv)            (4) All of these

Question 97

98. Which of the following methods can be used by the government for a fair globalisation ?

(i) impose trade barriers.  
(ii) negotiate at the WTO for fairer rules.  
(iii) align with other developing countries  
(iv) close its market for foreign trade.

- (1) Only (i) and (ii)                (2) Only (ii) and (iv)  
(3) Only (i), (ii) and (iii)        (4) All of these

Question 98

99. Which of the following is not correct relating to service sector ?

(1) All service sector activities are not growing equally well.

(2) Service sector in India employs many different kinds of people.

(3) 25% of people are engaged in service sector.

(4) All the people who employed in service sector are earning high income.

Question 99

100. Which of the following is not a feature of liberalisation ?

a. Businesses are allowed to make decisions freely about what they wish to import or export.

b. Government removes restrictions from foreign trade.

c. MNCs are allowed to work in the country.

d. It establishes rules regarding international trade.

(1) Only a, b, d

(2) Only b, c

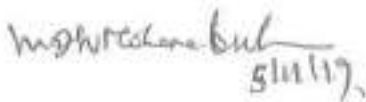
(3) Only c, d


(4) All of these


Question 100

NTS EXAMINATIONS - NOV. 2019

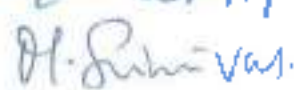
Certified that we have thoroughly  
verified the question paper and answered  
the questions to upload the initial key in the  
website of the DGE for the convenience of the  
Students.

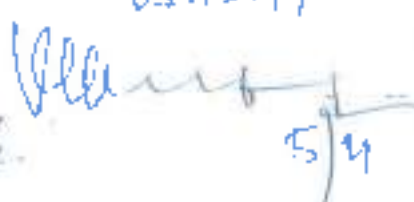
① Mat ——— VVDSV MOHANA KRISHNA  
SA (Maths)  
Z PHS CHAGALLU  5/11/19

② Maths ——— N. RAMAKRISHNARAO  
SA (Maths)  
Z PHS, Jayanthi  5/11/19

③ physics and  
Chemistry ——— I. D. Srinivasa Rao  
SA (P.S)  
Z. P. H. School, Edara  
Agnipalli (mat)  5/11/19

④ Biology ——— Y. Srinivasarao  
HM  
Z PHS papayyalam  05/11/19

⑤ History, politics ——— M. SRINIVAS  
Z PHS, Katrapadu  05/11/2019

⑥ Economics & Geography ——— M. Kotaiiah  
GSR MCH School  
Muttayalampedu  5/11