

FIITJEE INTERNAL TEST

10TH CLASS

PHASE TEST - I

07 JUNE 2020

MAT & SAT

Time: 3 hours

Max. Marks:150

INSTRUCTIONS

Question Paper contains 150 questions.

Question paper consists of 6 parts (IQ , Maths, Physics, Chemistry, Biology & Social).

Each question has 4 options with one correct answer. Bubbling of correct answer must be done on OMR Sheet.

Each question carries 1 mark. There is no negative marking.

HONESTY IS THE BEST POLICY. FINALLY HONESTY ONLY WINS. SO NEVER INVOLVE IN MALPRACTICE

IQ

1. In a certain code 'SEQUENCE' is coded as 'FDOFVRFT'. How is 'CHILDREN' coded in that code?
(A) OFESJMID (B) OFSEMJID (C) OFSEJIMD (D) OFSEJMID
2. If in the English alphabet, every alternate letter from B onwards is written in small letters while others are written in capitals, then how will the 3rd day from Tuesday will be coded?
(A) W e D N e S d A Y (B) W E d n e S d A Y (C) T H U R S d A Y (D) f r l d A Y
3. In a certain code 'ROAR' is written as 'URDU'. How is 'URDU' written in that code?
(A) V X D Q (B) XUGX (C) ROAR (D) VSOV

Direction (4 - 6) : Observe the following coding pattern and answer these questions:

TEN is coded as UIO
ANSWER is coded as EOTXIS

4. How is the word 'CRACHE' coded in that language?
(A) IVTIJQ (B) ISEIEQ (C) DSEDII (D) DUEIID
5. How is the word ENGLISH coded in that language
(A) IOHMOTI (B) CEOHMTI (C) IOBHPTI (D) NEOGUTI
6. How is the word 'MANGO' coded in that language?
(A) NBOHP (B) NEOHU (C) MBOHP (D) NEOGU

Direction (7 - 11): These questions are to be answered using the coding and decoding of English alphabet as given below

For $r = 1, 2, 3, \dots, 26$ letters each r^{th} letter is coded as $(3r+1)^{\text{th}}$ letter cyclically.

Example: M is coded as 14 let's see how?

The regular code for M is 13 but according to the given concept it's coded as follows

$(3 \times 13 + 1) = 40 = 26 + 14$, that is **14th letter is N**. Hence new code for N is 14.

7. What is the code letter for K?
(A) H (B) N (C) J (D) F
8. What is the code for the word CAT?
(A) JMN (B) JDI (C) JKV (D) JDG
9. What is the code for the word MOON?
(A) NTTQ (B) QPPL (C) NTRS (D) SRRT
10. Which word is coded as ETOBDK?
(A) JOSTLE (B) JOTTER (C) JOVIAL (D) JOYOUS
11. Which word is coded as WKLQMP
(A) PLASTER (B) PLANTER (C) PLAYFUL (D) PLUNDER
12. Study the following arrangement carefully and answer the given question below.
S D 9 5 E # K 6 T I 8 P 1 % A 2 C λ L M U 3 W @ N 4 © J \$ 7 F B
In the given series, 1st, 2nd, 3rd element and so on are interchanged with 20th, 19th, 18th element and so on respectively, then which element will be 8th to the left of 20th element from left end?
(A) P (B) I (C) 8 (D) T
13. In a certain code language, if the word 'MATHS' is coded as '1301200819', then which word is coded as '0301200308' in that language?
(A) CARVE (B) CASTE (C) CATCH (D) CATER

Direction (14 - 15) : Observe the following coding pattern and answer these questions:

CAR is coded as DES
PLANE is coded as QMEOI

14. How is the word 'SHIP' coded in that language?
(A) TIJQ (B) TIEQ (C) TIOR (D) TIOQ
15. How is the word BANGLE coded in that language
(A) CEOFMF (B) CEOHMI (C) MBOHPI (D) NEOGUI

Direction (16 - 17) : Observe the following coding pattern and answer these question

Word	Code
CHAIN	A2D2AOC3J4
MONEY	J3C5G7E1J5

16. How is the word 'CROWN' coded?
(A) B1C6J5W1 (B) A2C6E3W1 (C) B2C5D4K3 (D) None
17. How is the word PAPER coded?
(A) J6A1M3E1N4 (B) M3A0M3E2N4 (C) J2M1A1E2B4 (D) None

CALENDER

18. The Second day of the month is Sunday what will be the last day of the next month which has 31 days
(A) Friday (B) Saturday (C) Monday (D) Con't be determined
19. 1.12.91 is the first Sunday. Which is the fourth Tuesday of December 91?
(A) 17.12.91 (B) 24.12.91 (C) 27.12.91 (D) 31.12.91
20. Second & fourth Saturdays and every Sunday is a holiday. How many working days will be there in a month of 31 days beginning on a Friday?
(A) 24 (B) 23 (C) 22 (D) 25
21. How many seconds in 10 years?
(A) 31523500 sec (B) 315360000 sec (C) 315423000 sec (D) 315354000 sec
22. If today June 7, 2020 is coded as Monday what day is 2020th day from tomorrow?
(A) Wednesday (B) Thursday (C) Friday (D) Saturday
23. In a year, Holi was enjoyed on 6th March 9 AM and Deepawali was celebrated on 11th November 8 PM. The total time interval (in hours) between the two was?
(A) 2101 hrs (B) 4125 hrs (C) 5124 hrs (D) 6011 hrs
24. October 1st 1994 falls on which day?
(A) Sunday (B) Saturday (C) Friday (D) Wednesday
25. The calendar of year 1856 is same as which year?
(A) 1883 (B) 1884 (C) 1864 (D) 1880
26. 5th January 2018 was a Friday. Which of the following years will also have 5th January on a Friday?
(A) 2022 (B) 2020 (C) 2024 (D) 2023
27. In a company all Mondays and Sundays are offs. If a month starts with a Monday and has 31 days then how many offs will be there in that month?
(A) 7 (B) 8 (C) 9 (D) 5

28. The last day of a century cannot be
(A) Monday (B) Wednesday (C) Tuesday (D) Friday
29. Mayank was born on Feb 29th of 2012 which happened to be a Wednesday. If he lives to be 110 years old, after 2012, how many birthdays would he celebrate on a Wednesday?
(A) 5 Times (B) 4 Times (C) 8 Times (D) 3 Times
30. How many odd days are there in 926 days?
(A) 6 (B) 3 (C) 2 (D) 4
31. How many leap years are there in the first 659 years?
(A) 156 (B) 159 (C) 164 (D) None of these
32. How many odd days are there in the first 547 years?
(A) 0 (B) 3 (C) 2 (D) None of these
33. How many odd days are there in the month of APRIL?
(A) 5 (B) 4 (C) 3 (D) 2
34. At what time between 3 and 4 o'clock, the hands makes an angle of 10 degrees?
(A) $18\frac{2}{11}$ (B) $16\frac{2}{11}$ (C) $14\frac{2}{11}$ (D) $13\frac{2}{11}$
35. At what time between 5 and 6 are the hands 8 minute spaces apart?
(A) 24 min past 5 (B) 30 min past 5 (C) 36 min past 5 (D) 20 min past 5
36. A watch which gains uniformly is 6 min slow at 5 p.m. on Monday. On the following Monday at 9 am, it was 10 min 40 seconds fast. When was it correct?
(A) 8 : 36 pm. on Thursday (B) 2 : 36 am on Thursday
(C) 2 : 36 pm. on Thursday (D) 8 : 36 am on Thursday
37. Find at what time between 7 o'clock and 8 o'clock will the hands of a clock be in the same straight line but not overlap each other.
(A) $10\frac{9}{11}$ min past 8 (B) $5\frac{5}{11}$ min past 7
(C) $10\frac{8}{11}$ min past 8 (D) $10\frac{7}{11}$ min past 8
38. In one and half hours, the minute hand of a clock rotates through an angle of
(A) 720° (B) 540° (C) 600° (D) 420°
39. A clock is set right at 10 a.m. on Monday. The clock loses 15 min. in 24 hrs. What will be the true time when the clock indicates 4 am on the following Saturday?
(A) 5:12 am (B) 5:32 am (C) 6:32 am (D) 5:48 am
40. At what time, between 3 o'clock and 4 o'clock, both the hour hand and minute hand coincide each other?
(A) 3:30 (B) $3:16\frac{4}{11}$ (C) $3:16\frac{9}{11}$ (D) $3:16\frac{7}{11}$
41. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
(A) 144° (B) 150° (C) 168° (D) 180°
42. The reflex angle between the hands of a clock at 10.25 is:
(A) 180° (B) $192\frac{1}{2}^\circ$ (C) 195° (D) $197\frac{1}{2}^\circ$

43. At what time between 7 and 8 o'clock will the hands of a clock be in the same straight line but, not together?
(A) 5 min. past 7 (B) $5\frac{2}{11}$ min. past 7 (C) $5\frac{3}{11}$ min. past 7 (D) $5\frac{5}{11}$ min. past 7
44. At 3:40, the hour hand and the minute hand of a clock form an angle of:
(A) 120° (B) 125° (C) 130° (D) 135°
45. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is:
(A) 80° (B) 75° (C) 60° (D) 105°
46. A watch which gains uniformly is 2 minutes low at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct?
(A) 2 p.m. on Tuesday (B) 2 p.m. on Wednesday
(C) 3 p.m. on Thursday (D) 1 p.m. on Friday
47. How many times are the hands of a clock at right angle in a day?
(A) 22 (B) 24 (C) 44 (D) 48
48. A clock strikes ones at 1 O'clock, twice at 2 O'clock and so on. What is the total number of striking in a day?
(A) 153 (B) 156 (C) 152 (D) 159
49. A watch set correctly at 8 a.m. on a Sunday shows 20 min more than the correct time at 4 p.m. on that day. If the correct time is 10 p.m. on the same day, then what is the time shown by the watch?
(A) 10.35 (B) 9.35 (C) 9.25 (D) 10.25
50. Read the following statements and answer What is the time shown in the clock?
I. The minute hand is exactly on 9
II. The hour hand is exactly on 3
(A) statement 1 is sufficient to answer the question
(B) statement 2 is sufficient
(C) either statement 1 or 2 is sufficient
(D) both are required to answer the question

MATHS

51. The HCF of two numbers p and q is 1, their LCM is
 (A) $p+q$ (B) $p-q$ (C) pq (D) $\frac{1}{pq}$
52. If $a + \frac{1}{a} = \sqrt{3}$, then the value of $a^3 + \frac{1}{a^3}$ is
 (A) 0 (B) 1 (C) 2 (D) 3
53. If $(x+1)$ and $(x-1)$ are factors of $P(x) = x^3 + 2ax + b$ then the value of $2a+3b$ is
 (A) 5 (B) -1 (C) 4 (D) -6
54. If α and β are the zeros of the polynomial $P(x) = x^2 - 5x + k$ such that $\alpha - \beta = 1$, then k is
 (A) 6 (B) 8 (C) 10 (D) None
55. If α, β are roots of the equation $ax^2 + bx + c = 0$, then $ax^2 + bx + c =$
 (A) $(x-\alpha)(x-\beta)$ (B) $a(x-\alpha)(x-\beta)$ (C) $a(x-\beta)(x+\alpha)$ (D) $a(x+\alpha)(x+\beta)$
56. The condition that the equation $ax^2 + bx + c = 0$ has one positive and another negative root is
 (A) a and c will have same signs (B) a and c will have opposite signs
 (C) b and c will have same signs (D) b and c will have opposite signs
57. Find 'K' such that the quadratic equation $x^2 + 7(3+2K) - 2x(1+3K) = 0$ has equal roots
 (A) 2, 7 (B) 7, 5 (C) $2, \frac{-10}{9}$ (D) None
58. The maximum value of $-3x^2 + 4x - 5$ is K at $x = a$, then a, K respectively?
 (A) $\frac{2}{3}, \frac{-11}{3}$ (B) $\frac{1}{3}, \frac{11}{3}$ (C) $\frac{33}{9}, \frac{2}{3}$ (D) None
59. Given that α is a zero of $x^4 + x^2 - 1$, then the value of $(\alpha^6 + 2\alpha^4)^{2020}$ is
 (A) 1 (B) 0 (C) either 1 or 0 (D) None
60. Given that $7-3i$ is a root of $x^2 + px + q = 0$, then $3q+4p$ is
 (A) 14 (B) 58 (C) 118 (D) -14
61. $(x-1), (x+2)$ and $(x-2)$ are factors of $x^3 + ax^2 + bx + c$ then the value of $a+b+c$ is
 (A) 4 (B) -1 (C) -4 (D) 0
62. The least multiple of 7 which leaves a remainder of 4 when divided by 6, 9, 12 and 18 is
 (A) 362 (B) 365 (C) 364 (D) None
63. If $\frac{37}{13} = 2 + \frac{1}{x + \frac{1}{y + \frac{1}{z}}}$, where x, y, z are integers then the value of $x+y+z$ is
 (A) 6 (B) 8 (C) 7 (D) -2

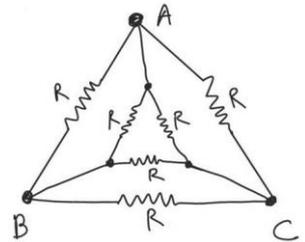
64. If $P(x) = ax^4 - bx^2 + x + 5$ and $P(-3) = 2$ then $P(3)$ is equal to
(A) -5 (B) 2 (C) 1 (D) 8
65. If $P(x,y,z) = x^3 + y^3 + z^3 - 3xyz$ then $P(124, 213, -337)$ is
(A) 0 (B) 1 (C) 2 (D) 3
66. Let $P(x) = 0$, be fifth degree polynomial equation with integral co-efficients. That has atleast one integral root. If $P(4) = 17$ & $P(14) = 7$, find the value of x , that must satisfy $P(x) = 0$
(A) 15 (B) 21 (C) 3 (D) 13
67. If $\left[\frac{\left[1 - \left(\frac{a}{b} \right)^{-2} \right] a^2}{(\sqrt{a} - \sqrt{b})^2 + 2\sqrt{ab}} \right] = 1$ and $a + b = 5$, then a^b is
(A) 16 (B) 1 (C) 9 (D) 4
68. How many ways can the number 7056 be resolved into two factors
(A) 23 (B) 32 (C) 36 (D) 21
69. $\phi(N)$ denotes the number of co-primes which are less than N and $d_1, d_2, d_3, \dots, d_k$ are all factors of 1080. Then find $\phi(d_1) + \phi(d_2) + \phi(d_3) + \dots + \phi(d_k)$
(A) 1080 (B) 2160 (C) 540 (D) 270
70. If $N = 7^{P+4} \cdot 5^q \cdot 2^3$ is a perfect cube, where P and q are positive integers. The smallest possible value of $P + q$ is
(A) 2 (B) 8 (C) 6 (D) 5

PHYSICS

71. Two small balls, each having a positive charge 'q' one suspended by two insulating strings of equal length 'l' from a hook fixed to a stand. The whole set up is taken in gravity free space. The angle between the strings & tension in each string will be
 (A) $180^\circ, \frac{Kq^2}{l^2}$ (B) $90^\circ, \frac{Kq^2}{l^2}$ (C) $180^\circ, \frac{Kq^2}{2l^2}$ (D) $180^\circ, \frac{Kq^2}{4l^2}$
72. A charge Q is placed at each of the opposite corners of a square. Another charge q is placed at each of the other two corners. If the net force on Q is zero, then $\left| \frac{Q}{q} \right|$ equals
 (A) $2\sqrt{2}$ (B) $\frac{1}{2\sqrt{2}}$ (C) $\sqrt{2}$ (D) $\frac{1}{\sqrt{2}}$
73. A charge of magnitude 3e & mass 2m is moving in an electric field \vec{E} . The acceleration imparted to the charge is
 (A) $\frac{2Ee}{3m}$ (B) $\frac{2E}{3me}$ (C) $\frac{3Ee}{2m}$ (D) $\frac{3E}{2me}$
74. Two points P & Q are maintained at potentials of 10 V & -4 V respectively. The work done in moving 100 electrons from P to Q is
 (A) Zero (B) 2.24×10^{-16} J (C) -2.24×10^{-16} J (D) None of the above

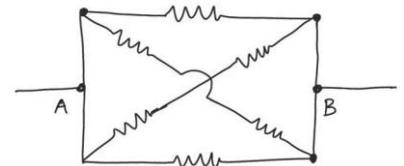
75. The resistance between points B & C is

- (A) $\frac{R}{2}$ (B) $\frac{3R}{2}$
 (C) $\frac{R}{3}$ (D) $\frac{2R}{3}$



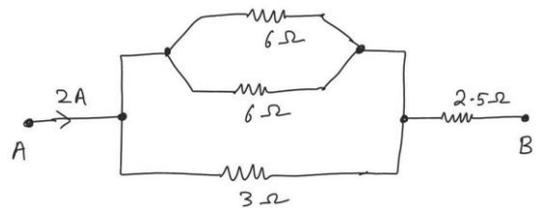
76. All resistors has resistance of 2 ohm. The resistance between points A & B for the following network is

- (A) $\frac{2}{3}\Omega$ (B) $\frac{4}{3}\Omega$ (C) 1Ω (D) 4Ω



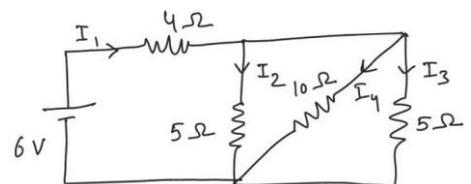
77. P.D. between points A & B is

- (A) 6 V (B) 8 V
 (C) 10 V (D) 12 V



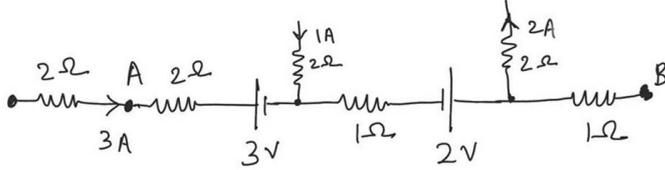
78. Choose the correct statement

- (A) R_{eq} of circuit = 8Ω & $I_3 = 0.2A$
 (B) R_{eq} of circuit = 6Ω & $I_3 = 0.4A$
 (C) R_{eq} of circuit = 6Ω & $I_2 = I_3 < I_4$
 (D) R_{eq} of circuit = 8Ω & $I_2 = I_3 > I_4$



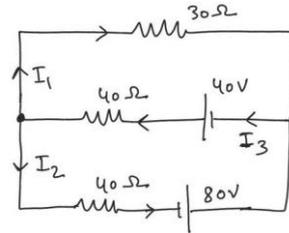
79. A wire is drawn such that its radius changes from r to $2r$. The new resistance is
 (A) 4 times (B) 16 times (C) $\frac{1}{4}$ times (D) $\frac{1}{16}$ times

80. The potential difference between points A & B, in a section of a circuit shown is



- (A) 5 V (B) 1 V (C) 11 V (D) 13 V
81. The value of I_1 is

- (A) 0.4 A (B) - 0.4 A
 (C) 0.8 A (D) - 0.8 A



82. How many electrons flow through a filament of 120 V, 60 W bulb in 1s?
 (A) 6.25×10^{18} (B) 3.125×10^{18} (C) 1.25×10^{19} (D) 6.25×10^{19}
83. Two heaters are marked 200 V, 300 W & 200 V, 600 W. The heaters are connected in series with 200 V battery. The heat produced by both heaters are
 (A) $\frac{400}{3}$ W, $\frac{200}{3}$ W (B) $\frac{1000}{3}$ W, $\frac{500}{3}$ W (C) $\frac{800}{3}$ W, $\frac{400}{3}$ W (D) $\frac{200}{3}$ W, $\frac{100}{3}$ W

CHEMISTRY

84. Which of the following is called acid salt?
 (A) NaH_2PO_2 (B) Na_2HPO_3 (C) NaH_2PO_4 (D) all the above
85. $(A) \xrightarrow{\text{H}_2\text{O}} (B) \xrightarrow{\text{CO}_2} (C) \xrightarrow{\Delta} (D) \xrightarrow{\text{H}_2\text{O}} (E) \xrightarrow{\text{NaOH}} (F)$.
 Quick lime Gas Weak acid Salt
 What is the nature of aqueous solution of product (F)?
 (A) neutral (B) amphoteric (C) acidic (D) Basic
86. What will be the pOH value of 0.05 M H_2SO_4 solution?
 (A) 13 (B) 12 (C) 2 (D) 1
87. Which of the following are neutral oxides?
 (A) Al_2O_3 and NO_2 (B) CaO and SO_3
 (C) N_2O and CO (D) Al_2O_3 and ZnO
88. $\text{CaO} \xrightarrow{\text{H}_2\text{O}} \text{A} \xrightarrow{\text{Cl}_2} \text{B} \xrightarrow{\text{CO}_2} \text{C} + \text{D} \uparrow$
 C is a salt and D is a gas then which of the following statements is true.
 (A) The molecule D is O_2 (B) A is an oxyacid
 (C) B has bleaching action (D) aqueous solution of C is acidic in nature
89. $a\text{H}_2\text{S} + b\text{Cr}_2\text{O}_7^{2-} + c\text{H}^+ \rightarrow d\text{Cr}_2\text{O}_3 + e\text{S}_8 + f\text{H}_2\text{O}$. Then a/d is
 (A) 8 (B) 7 (C) 3 (D) 1
90. The pH of solution obtained by mixing 50 ml of 0.6 M HCl and 50 ml of 0.6 M NaOH is
 (A) 7 (B) 4 (C) 1 (D) 0
91. $2\text{Pb}(\text{NO}_3)_2 \xrightarrow{\Delta} 2\text{PbO} + \underset{\text{(reddish brown)}}{x_{(g)}} + y_{(g)}$
 $2\text{FeSO}_4 \xrightarrow{\Delta} \text{Fe}_2\text{O}_3 + \text{SO}_3 + z_{(g)}$
 In the above two reactions. x, y and z are respectively
 (A) O_2 , NO_2 and SO_2 (B) NO_2 , SO_2 and O_2 (C) NO_2 , NO and SO_2 (D) NO_2 , O_2 and SO_2
92. Sum of oxidation number of two metals in the molecule $\text{K}_4[\text{Fe}(\text{CN})_6]$
 (A) 4 (B) 3 (C) 5 (D) 6
93. Which of the following statement is incorrect?
 (A) Zinc can displace copper from copper sulphate solution
 (B) Rancidity is an example of reduction reaction
 (C) Al can be used to store Brine solution
 (D) Oxidising agent undergoes reduction

BIOLOGY

98. Chief function of bile is
 (A) to emulsify fat for digestion (B) to digest fat by enzymatic action
 (C) to eliminate waste product (D) to regulate process of digestion
99. The reactions of glycolysis occur in
 (A) lysosomes (B) mitochondria
 (C) endoplasmic reticulum (D) cytoplasm
100. The tricuspid valve occurs between the
 (A) right auricle and left auricle (B) right auricle and right ventricle
 (C) left auricle and left ventricle (D) right ventricle and left ventricle
101. In man and other mammals, air passes from outside into the lungs through
 (A) Nasal cavity, larynx, pharynx, trachea, bronchi, alveoli
 (B) Nasal cavity, larynx, pharynx, trachea, bronchioles, alveoli
 (C) Nasal cavity, pharynx, larynx, trachea, bronchioles, bronchi, alveoli
 (D) Nasal cavity, pharynx, larynx, trachea, bronchi, bronchioles, alveoli
102. Match the column-I with column-II
Column-I **Column-II**
 1) Vitamin D A) Xerophthalmia
 2) Vitamin C B) Beri-beri
 3) Vitamin A C) Rickets
 4) Vitamin B1 D) Scurvy
 (A) 1-C, 2-D, 3-B, 4-A (B) 1-B, 2-C, 3-D, 4-A (C) 1-C, 2-D, 3-A, 4-B (D) 1-D, 2-C, 3-A, 4-B
103. Proteins are digested with the help of enzyme
 (A) pepsin (B) lipase (C) ptyalin (D) amylase
104. When in a person both antibodies are present but there is no antigen his blood group is
 (A) B (B) AB (C) A (D) O
105. Which of the following statement(s) is (are) true about respiration
 1) Percentage of oxygen in exhaled air is 20.93
 2) During inhalation, ribs move inward diaphragm is raised
 3) Alveoli increase surface area for exchange of gases
 4) In the alveoli, exchange of gases takes place i.e, oxygen from alveolar air diffuses into blood and carbondioxide from blood into alveolar air
 (A) 1 & 3 (B) 3 & 4 (C) 2 & 3 (D) 2 & 4
106. The source of oxygen liberated in photosynthesis is
 (A) carbondioxide (B) carbohydrate present in leaf
 (C) water (D) Photosynthetic enzyme
107. Pericardium is the membrane surrounding the
 (A) kidney (B) heart (C) brain (D) lungs
108. In plants water and minerals are transported by
 (A) leaves (B) lenticels (C) phloem (D) xylem
109. The course of blood from the heart to the lungs and back to the heart is called
 (A) pulmonary circulation (B) systemic circulation
 (C) double circulation (D) single circulation
110. The largest gland in human body is
 (A) pancreas (B) thymus (C) liver (D) salivary gland

SOCIAL

111. Which one of the following is wrongly matched?
(A) Spinning Jenney - James Hargreaves
(B) Richard Arkwright - Cotton Mill
(C) Flying Shuttle - John Kay
(D) Steam Engine - Walter Hunt
112. Which one of the following Indian ports lost its importance during colonial rule?
(A) Bombay (B) Calcutta (C) Surat (D) Madras
113. The industry in which Spinning Jenny was introduced for the first time
(A) Cotton industry (B) Woollen industry (C) Jute industry (D) Paper industry
114. Which of the following was not a European Managing Agency dominating industrial production in India?
(A) Elgin Mills (B) Andrew Yule
(C) Bird Heighlers and Co (D) Jardine Skinner and Co
115. The company official who said that the demand for Indian textiles could never reduce, since no nation produced goods of the same quality
(A) Henry Ford (B) Henry Fayol (C) Henry Patullo (D) Henry Cavill
116. Which of the following innovations helped the weaver in increasing the productivity and compete with the Mill sector.
(A) Spinning Jenny (B) Flying Shuttle (C) Cotton Gin (D) Roller
117. During the first world war years, the industrial production in India boomed. Which of the following is appropriate reasons?
(i) Manchester imports in India declined as British Mills were busy with war production
(ii) Indian industries were called upon to supply war needs
(iii) Indian produces were asked by the Germany to produce for them
(iv) Indian produces got orders from United States of America
(A) Only i & ii (B) Only ii, iii & iv (C) Only iii & iv (D) All the above
118. Which of the following statement is false in relation to Gomastas?
(A) The Gomastas acted arrogantly
(B) The Gomastas used to punish the weavers for delays in supply
(C) They are the paid servants by East Indian Company
(D) They started producing the Cotton, Silk and several other goods
119. Which of the following is wrongly matched?
(A) Dwarakanath Tagore - Industrialist
(B) E.T.Paul - Publisher
(C) Mathew Boulton - Farmer
(D) Henry Patullo - Official of East Indian Company
120. The main function of the Jobber was to
(A) Create jobs from industrialists (B) Get new recruits for the industrialists
(C) Helps the artisans (D) To advise the company and technical issues
121. Why did Manchester export to India decline after World War?
(A) People were busy fighting the war
(B) Factories closed down due to security problems
(C) Factories and Mills were busy producing goods to fulfil the needs of the army
(D) Export trades

122. Consider the following statements and choose the correct answers
(i) In Victorian Britain there was no shortage of human labour
(ii) Gas works, breweries needed extra workers during winter
(iii) Ship building industry needed extra workers during winter
(iv) Industrialists used hand labour seasonally
(A) i & ii are correct (B) Only ii & iii are correct
(C) All are correct (D) All are false
123. Which one of the following about Dwarkanath Tagore is wrong?
(A) He has set up 6 joint stock companies
(B) He believed that India would develop through westernisation and industrialisation
(C) He is the author of National Anthem
(D) He invested in shipping, Mining, Banking insurance etc
124. Which one of the following is True?
(A) First Iron Steel Industry - Durgapur
(B) Fruit Cotton Mill - Coimbatore
(C) Fruit Spinning and Weaving Mill - Madras
(D) First Jute Mill - Howrah
125. Carding, Twisting, Spinning and Rolling are associated with
(A) Jute industry (B) Silk industry (C) Cotton Textiles (D) Woollen Textiles
126. Which one of the following is not appropriate reason for power sharing?
(A) It leads to Economic Development (B) It reduces the possibility of social conflicts
(C) It ensures Political Stability (D) It is the very spirit of democracy
127. Community Government in Belgium is a good example of Power Sharing among
(A) Different Social Groups (B) Different Organs of Govt
(C) Different Levels of Govt (D) Different Political Parties
128. Consider the statements
(i) Independent states coming together on their own to form bigger unit
(ii) Constituent units have unequal powers
(iii) Constituent units have equal powers
(A) All are correct (B) Only ii & iii are correct
(C) Only i & iii are correct (D) All are false
129. Consider the following
(i) Belgium was shifted from Unitary form of govt to Federal form of Govt in 1993
(ii) The Four (4) Amendments are passed in Belgium between 1970 to 1993
(iii) In Belgium the leaders decided to respect the feelings and interests of different communities and regions
(iv) Division of Belgium along linguistic lines was averted due to power sharing
(A) Only i & ii are correct (B) Only iii & iv are correct
(C) All are False (D) All are True
130. Which of the following statement is correct regarding the language policy of the Indian Govt?
(A) Hindi is our National language
(B) Our constitution did not give the status of National language to any one language
(C) Besides Hindi, there are other 24 languages recognised by the Constitution
(D) Every state has its own National language

131. Which of the following step is not related to decentralisation?
(A) Regular Elections to local bodies
(B) Some seats are reserved for SC & ST's
(C) 1/3 of seats are reserved for women
(D) Formation of Coalition Govt
132. The organisation that publishes Human Development Report
(A) WTO (B) WHO (C) FAO (D) UNDP
133. Average income of the country is called percapita income can be derived by
(A) $\frac{\text{Total Income}}{\text{Total Population}}$ (B) $\frac{\text{Total Population}}{\text{Total Income}}$
(C) Total Income \times Total population (D) Total Income + Total population
134. Which of the following is not true with reference to development?
(A) The development goals that people have only is only about higher income
(B) Different persons can have different developmental goals
(C) For goals development people look at mix of goals
(D) The development goals that people have are not only about better income but also about other important things in life
135. _____ is an area of knowledge in which scientists, economists, philosophers and other social scientists are working together
(A) Science & Technology (B) Continuity of Development
(C) Infrastructural development (D) Sustainability of Development
136. Which of the following is not true with respect to alluvial soil?
(A) The soil is very fertile
(B) The soil develops in areas with high temperature and heavy rainfall
(C) These soils have adequate proportion of potash, phosphoric acid and lime
(D) Due to high fertility regions of this soil they are intensively cultivated
137. Land left without cultivation for one or less than one agricultural year is called
(A) Culturable waste land (B) Current fallow land
(C) Waste land (D) None of these
138. Arrange the following in chronological order
(i) Brundtland commission report (ii) Earth summit
(iii) Publication of Schumacher book (iv) Club of Rome
(A) iv, iii, i & ii (B) iv, iii, ii & i (C) i, iv, ii & iii (D) i, ii, iii & iv
139. Which of the following method is ideal for controlling land degradation in coastal area and deserts?
(A) Strip cropping (B) Contour ploughing (C) Shelter Belts (D) Terrace farming
140. Match the following
- | List I | List II |
|------------------------|---------------------|
| i. Endemic species | a. Andaman wild pig |
| ii. Extinct species | b. Desert fox |
| iii. Rare species | c. Black buck |
| iv. Endangered species | d. Asiatic cheetah |
- (A) i – a; ii – d; iii – b; iv – c (B) i – a; ii – d; iii – c; iv – b
(C) i – c; ii – d; iii – a; iv – b (D) i – a; ii – b; iii – c; iv – d

141. Arrange the following events in chronological order
(i) Joint Forest Management (JFM) – In Orissa
(ii) Wild life protection Act
(iii) "Project Tiger"
(iv) National Forest Policy
(A) iv, ii, iii, i (B) iv, iii, ii, i (C) i, iv, ii, iii (D) i, iii, iv, ii
142. Consider the following
(i) Between 1951 and 1980 26,200 sq.km of forest area converted into agricultural land
(ii) Construction of Narmada Sagar Project inundated 60,000 hectares of forest
(iii) Since 1951, over 5,000 sq.km of forests was cleared for river
(iv) The apparanent increase in the forest cover is due to different plantation crops
(A) Only i, ii, iii are correct (B) Only i, iii & iv are correct
(C) Only ii & iv are correct (D) All are correct
143. Which of the following is not true with reference to Joint Forest Management (JFM)
(A) It involves local communities for the management of forests
(B) This programme has been informed existence since 1988
(C) JFM depends upon the formation of local institutions to undertake protection activities mostly on degraded forest land
(D) JFM also apposes construction of multi-purpose projects
144. The Chipko Movement is associated with
(A) Women Rights (B) Civil and Political Rights
(C) Forest Conservation (D) Rights of Adivasis
145. Which of the following is wrongly matched?
(A) Largest state under permanent forests - Madhya Pradesh
(B) Joint Forest Management (JFM) first started in - Orissa
(C) Sariksha Tiger Reserve - Gujarat
(D) Dolomite Mining - West Bengal
146. What is the Position of India, in the world in terms of Bio-diversity?
(A) Fifth (B) Twelve (C) Sixteen (D) Eighteen
147. Which group of people in India are responsible for maximum ecological destruction?
(A) Richest 5% (B) Poorest 25% (C) Tribal communities (D) Slum Dwellers
148. Which of the following is a Normal Species?
(A) Rodents (B) Indian wildass (C) Desert Fox (D) Nicobar Pigcon
149. Which of the following is not a major factor responsible for deforestation in India?
(A) Colonial Period (B) Agricultural expansion
(C) Large Scale development projects (D) Adivasis
150. "Himalayan Yew" is used to treat
(A) Cancer (B) Cholera
(C) Covid (D) Cardio Vascular (Heart disease)

❖ *Wish you all the best* ❖