

FIITJEE SAMPLE PAPER – 2018

(Big Bang Edge Test / Talent Recognition Exam)

for students presently in

Class 10 (Paper 2)

Time: 3 Hours (1:45 pm – 4:45 pm)

Code 1010

Maximum Marks: 246

Instructions:

Caution: Class, Paper, Code as given above **MUST** be correctly marked on the answer OMR sheet before attempting the paper. Wrong Class, Paper or Code will give wrong results.

- You are advised to devote 20 Minutes on Section-I, 40 Minutes on Section-II, 60 Minutes on Section-III and 60 Minutes on Section-IV.
- This Question paper consists of 4 sections. Marking scheme is given in table below:

Section	Subject	Question no.	Marking Scheme for each question	
			correct answer	wrong answer
SECTION – I	PHYSICS (PART-A)	1 to 5	+2	-0.5
	CHEMISTRY (PART-B)	6 to 10	+2	-0.5
	MATHEMATICS (PART-C)	11 to 15	+2	-0.5
SECTION – II	PHYSICS (PART-A)	16 to 23	+3	-1
	CHEMISTRY (PART-B)	24 to 31	+3	-1
	MATHEMATICS (PART-C)	32 to 39	+3	-1
SECTION – III	PHYSICS (PART-A)	40 to 45	+3	-1
	CHEMISTRY (PART-B)	46 to 51	+3	-1
	MATHEMATICS (PART-C)	52 to 57	+3	-1
	PHYSICS (PART-D)	58 to 59	+3	0
	CHEMISTRY (PART-E)	60 to 61	+3	0
	MATHEMATICS (PART-F)	62 to 63	+3	0
SECTION – IV	PHYSICS (PART-A)	64 to 68	+3	0
	CHEMISTRY (PART-B)	69 to 73	+3	0
	MATHEMATICS (PART-C)	74 to 78	+3	0
	PHYSICS (PART-D)	79 to 81	+3	0
	CHEMISTRY (PART-E)	82 to 84	+3	0
	MATHEMATICS (PART-F)	85 to 87	+3	0

- Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
- Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
- Before attempting paper write your OMR Answer Sheet No., Registration Number, Name and Test Centre** in the space provided at the bottom of this sheet.
- See method of marking of bubbles at the back of cover page for question no. 58 to 63 and 79 to 87.**

Note: Please check this Question Paper contains all **87** questions in serial order. If not so, exchange for the correct Question Paper.

OMR Answer Sheet No. : _____

Registration Number : _____

Name of the Candidate : _____

Test Centre : _____

For questions **58 to 63 and 79 to 87**

Numerical based questions single digit answer 0 to 9

Example 1:

If answer is 6.

Correct method:

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

Example 2:

If answer is 2.

Correct method:

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

SAMPLE PAPER

Recommended Time: 20 Minutes for Section – I**Section – I****PHYSICS – (PART – A)**

This part contains 5 Multiple Choice Questions number 1 to 5. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

- A body can be negatively charged by
(A) Giving excess of electrons to it
(B) Removing some electrons from it
(C) Giving some protons to it
(D) Removing some neutrons from it
- The work done in carrying a charge Q once around a circle of radius r about a charge q at the centre is
(A) $\frac{qQ}{4\pi\epsilon_0}$
(B) $\frac{qQ}{4\pi\epsilon_0} \frac{1}{\pi r}$
(C) $\frac{qQ}{4\pi\epsilon_0} \left(\frac{1}{2\pi r} \right)$
(D) 0
- Two lines of force due to a bar magnet
(A) Intersect at the neutral point
(B) Intersect near the poles of the magnet
(C) Intersect on the equatorial axis of the magnet
(D) Do not intersect at all
- Field at the centre of a circular coil of radius r, through which a current I flows is
(A) Directly proportional to r
(B) Inversely proportional to I
(C) Directly proportional to I
(D) Directly proportional to I²
- A solar panel is made by combining a large number of
(A) solar cookers
(B) solar cells
(C) solar water heaters
(D) solar concentrators

Space for Rough Work

CHEMISTRY – (PART – B)

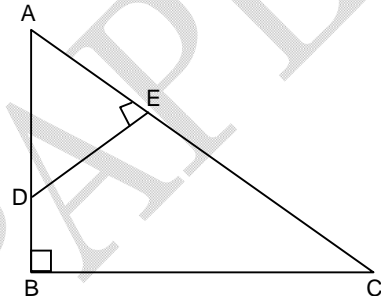
This part contains 5 Multiple Choice Questions number 6 to 10. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

6. The chemical formula of lead (II) sulphate is
(A) Pb_2SO_4 (B) $\text{Pb}(\text{SO}_4)_4$
(C) PbSO_4 (D) $\text{Pb}_2(\text{SO}_4)_3$
7. The electrolytic decomposition of water gives H_2 and O_2 in the ratio of
(A) 1 : 2 by volume (B) 2 : 1 by volume
(C) 8 : 1 by mass (D) 1 : 2 by mass
8. Acid used for manufacture of fertilizers and explosives is
(A) Nitric acid (B) Sulphuric acid
(C) Phosphoric acid (D) Hydrochloric acid
9. Methyl orange is
(A) Red in acidic medium, yellow in basic medium
(B) Yellow in acidic medium, pink in basic medium
(C) Colourless in acidic medium, pink in basic medium
(D) Pink in acidic medium, colourless in basic medium
10. Metals are refined by using different methods. Which of the following metals are refined by electrolytic refining?
(A) Al (B) Cu
(C) Na (D) K

Space for Rough Work

MATHEMATICS – (PART – C)

This part contains 5 Multiple Choice Questions number 11 to 15. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

11. The HCF of two numbers obtained in three steps of division is 7 and the first 3 quotient are 2, 4 and 6 respectively. The numbers are
 (A) 189, 392 (B) 175, 392
 (C) 168, 385 (D) none of these
12. If $ax^2 + 2a^2x + b^3$ is divisible by $x + a$ then which condition must be true, $[a, b > 0]$
 (A) $a + b = 0$ (B) $a^2 + 2ab + b^2 = 0$
 (C) $a^2 - ab + b^2 = 0$ (D) $a = b$
13. In the given figure, $\angle ABC = \angle AED = 90^\circ$. Consider the following statement
 I: ABC and AED are similar triangles
 II: The four points B, C, E and D will lie on a circle.
 Which one is true
 (A) Only I
 (B) Only II
 (C) Both I and II
 (D) none
- 
14. If $\sec A + \tan A = x$ then $\sec A =$
 (A) $\frac{x^2 - 1}{x}$ (B) $\frac{x^2 - 1}{2x}$
 (C) $\frac{x^2 + 1}{x}$ (D) $\frac{x^2 + 1}{2x}$
15. If $\sqrt[3]{a} + \sqrt[3]{b} + \sqrt[3]{c} = 0$ then $(a + b + c)^3 =$
 (A) $27abc$ (B) $3abc$
 (C) $9abc$ (D) abc

Space for Rough Work

Recommended Time: 40 Minutes for Section – II

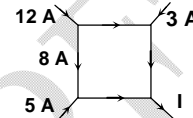
Section – II

PHYSICS – (PART – A)

This part contains **8 Multiple Choice Questions** number **16 to 23**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

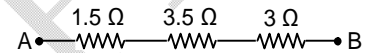
16. Figure shows a network of currents. The magnitude of currents is shown here. The current I will be

(A) $-3A$ (B) $3A$
(C) $13 A$ (D) $20 A$



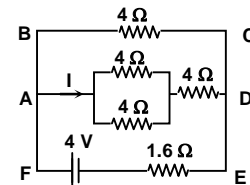
17. Find the total resistance between points A and B

(A) 1Ω (B) 4Ω
(C) 5.5Ω (D) 8Ω



18. In the circuit shown, the value of I in ampere is

(A) 1 (B) 0.60
(C) 0.4 (D) 1.5

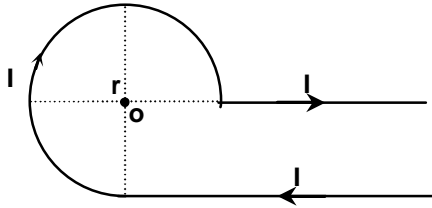


19. A helium nucleus makes a full rotation in a circle of radius 0.8 metre in two seconds. The value of the magnetic field B at the centre of the circle will be

(A) $\frac{10^{-19}}{\mu_0}$ (B) $10^{-19} \mu_0$
(C) $2 \times 10^{-10} \mu_0$ (D) $\frac{2 \times 10^{-10}}{\mu_0}$

Space for Rough Work

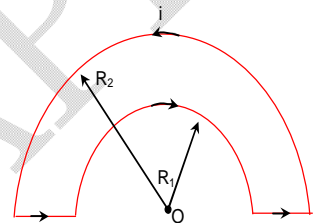
20. Current 'I' is flowing in a conductor shaped as shown in the figure. The radius of the curved part is r and the length of straight portion is very large. The value of the magnetic field at the centre O will be



- (A) $\frac{\mu_0 I}{4\pi r} \left(\frac{\pi}{2} + 1 \right)$ (B) $\frac{\mu_0 I}{4\pi r} \left(\frac{\pi}{2} - 1 \right)$
 (C) $\frac{\mu_0 I}{4\pi r} \left(\frac{3\pi}{2} + 1 \right)$ (D) $\frac{\mu_0 I}{4\pi r} \left(\frac{3\pi}{2} - 1 \right)$

21. The magnetic induction at the centre O in the figure shown is

- (A) $\frac{\mu_0 i}{4} \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$
 (B) $\frac{\mu_0 i}{4} \left(\frac{1}{R_1} + \frac{1}{R_2} \right)$
 (C) $\frac{\mu_0 i}{4} (R_1 - R_2)$
 (D) $\frac{\mu_0 i}{4} (R_1 + R_2)$

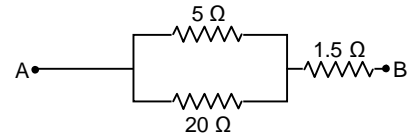


22. Which of the following is not biomass?

- (A) Sun (B) Rice husk
 (C) Wood (D) Cattle dung

23. Find the total resistance between A and B.

- (A) 3.5 Ω (B) 2.5 Ω
 (C) 1.5 Ω (D) 5.5 Ω



Space for Rough Work

CHEMISTRY – (PART – B)

This part contains **8 Multiple Choice Questions** number **24 to 31**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

24. Write values of a, b and c if following chemical reaction is balanced.
 $a\text{Mg} + b\text{O}_2 \rightarrow c\text{MgO}$
(A) a=1, b=2, c=2 (B) a=2, b=1, c=2
(C) a=2, b=2, c=2 (D) a=1, b=2, c=1
25. Because of the formation of which of the following, lime water turns milky when carbon dioxide is passed in it?
(A) Calcium carbonate (B) Calcium bicarbonate
(C) Calcium hydroxide (D) Sodium carbonate
26. Phenolphthalein in acidic solution is
(A) Colorless (B) Pink colored
(C) Yellow colored (D) Orange colored
27. A substance that donates a pair of electrons to form coordinate covalent bond is called
(A) Lewis acid (B) Lewis base
(C) Bronsted-Lowry acid (D) Bronsted-Lowry base
28. The nature of calcium phosphate present in tooth enamel is
(A) Basic (B) Amphoteric
(C) Acidic (D) Neutral
29. An element reacts with oxygen to give a compound with a high melting point. The compound is soluble in water. The element is likely to be
(A) Calcium (B) Carbon
(C) Iron (D) Silicon
30. Which of the following is incorrect?
(A) Zinc Oxide is known as amphoteric oxide (B) Silicon counts among metalloids
(C) Sodium is kept open in air (D) Metals conduct electricity
31. Which metal can be displaced by copper from its salt solution?
(A) Silver (B) Zinc
(C) Iron (D) Aluminium

Space for Rough Work

MATHEMATICS – (PART – C)

This part contains **8 Multiple Choice Questions** number **32 to 39**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

32. The bisectors of the angles of an acute angled triangle ABC meets BC, CA and AB at X, Y and Z respectively then
 (A) $BX \cdot CY \cdot AZ = XC \cdot YA \cdot ZB$ (B) $BX \cdot AY \cdot AZ = XC \cdot CY \cdot ZB$
 (C) $BX \cdot ZB \cdot AZ = XC \cdot YA \cdot CY$ (D) none of these
33. If $0^\circ < x < 45^\circ$ and $45^\circ < y < 90^\circ$ then which one of the following must be correct
 (A) $\sin x = \sin y$ (B) $\sin x < \sin y$
 (C) $\sin x > \sin y$ (D) $\sin x \geq \sin y$
34. If the number 2345p60q is exactly divisible by 3 and 5 then maximum value of p + q is
 (A) 13 (B) 10
 (C) 11 (D) 12
35. A vertical tower PQ subtends equal angle of 30° at each of the two places A and B, 60 meter apart on the ground. If AB subtends an angle of 60° at P (the foot of the tower) then the height of the tower is
 (A) $20\sqrt{3}$ meter (B) 20 meter
 (C) $60\sqrt{3}$ meter (D) 60 meter
36. If α, β, γ are the zeros of the polynomial $x^3 + 4x + 1$ then $(\alpha + \beta)^{-1} + (\beta + \gamma)^{-1} + (\gamma + \alpha)^{-1} =$
 (A) 2 (B) 3
 (C) 4 (D) 5
37. ABC is a right angled triangle at A and AD is perpendicular to the hypotenuse. Then $\frac{BD}{CD}$ is equal to
 (A) $\left(\frac{AB}{AC}\right)^2$ (B) $\left(\frac{AB}{AD}\right)^2$
 (C) $\frac{AB}{AC}$ (D) $\frac{AB}{AD}$
38. If $\sec \alpha$ and $\operatorname{cosec} \alpha$ are the roots of the equation $x^2 - px + q = 0$ then
 (A) $p^2 + q^2 = 2q$ (B) $p^2 - q^2 = 2q$
 (C) $p^2 + q^2 = 2p$ (D) $p^2 - q^2 = 2p$
39. If the ratio of the roots of polynomial $x^2 + bx + c$ is the same as that of the ratio of the roots of $x^2 + qx + r$ then
 (A) $br^2 = qc^2$ (B) $cq^2 = rb^2$
 (C) $q^2c^2 = b^2r^2$ (D) $bq = rc$

Space for Rough Work

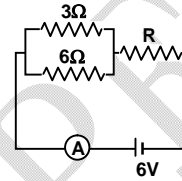
Recommended Time: 60 Minutes for Section – III

Section – III

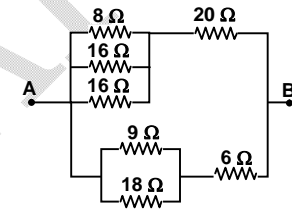
PHYSICS – (PART – A)

This part contains **6 Multiple Choice Questions** number **40 to 45**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

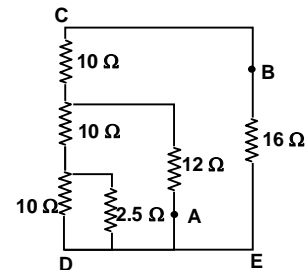
40. If the ammeter in the given circuit reads 2A, the resistance R is:
 (A) 1 ohm (B) 2 ohm
 (C) 3 ohm (D) 4 ohm



41. The equivalent resistance of the network shown in the figure between the points A and B is
 (A) 6 Ω (B) 8 Ω
 (C) 16 Ω (D) 24 Ω

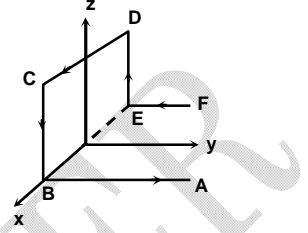


42. What is the equivalent resistance across the points A and B in the given circuit.
 (A) 8 Ω (B) 12 Ω
 (C) 16 Ω (D) 32 Ω



Space for Rough Work

43. A straight wire of length 0.5 m and carrying a current of 1.2 A is placed in uniform magnetic field of induction $2T$. The magnetic field is perpendicular to the length of the wire. The force on the wire is
 (A) 2.4 N (B) 1.2 N
 (C) 3.0 N (D) 2.0 N
44. A wire ABCDEF (with each side of length L) bent as shown in the figure and carrying a current I is placed in a uniform magnetic induction B parallel to the positive y -direction. The force experienced by the wire is in thedirection.
 (A) ILB , +ve z -axis (B) ILB , -ve z -axis
 (C) $-ILB$, +ve z -axis (D) zero
45. A substance cannot catch fire or burn as long as its temperature is lower than _____.
 (A) Critical temp (B) Melting point
 (C) Boiling point (D) Ignition temperature



Space for Rough Work

CHEMISTRY – (PART – B)

This part contains 6 Multiple Choice Questions number 46 to 51. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

46. Which of the following oxide(s) of iron would be obtained on prolonged reaction of iron with steam?
(A) FeO (B) Fe₂O₃
(C) Fe₃O₄ (D) Fe₂O₃ and Fe₃O
47. When copper oxide is heated with hydrogen, copper metal and water are formed. Which of the following is oxidising agent in this reaction?
(A) Copper oxide (B) Hydrogen
(C) Copper (D) Water
48. Which of the following is true?
(A) Colour of basic copper carbonate is green (B) Malachite is an ore of Copper
(C) Zinc is more reactive than Copper (D) All the above
49. Substances that react with both acids and bases are called
(A) Neutral (B) Conjugate bases
(C) Amphoteric substances (D) Conjugate acids
50. When crystals of lead nitrate are heated strongly in a dry test tube
(A) Crystals immediately melt (B) A brown residue is left
(C) White fumes appear in the tube (D) A yellow residue is left
51. Which among the following alloys contain mercury as one of its constituents?
(A) Stainless steel (B) Alnico
(C) Solder (D) Zinc amalgam

Space for Rough Work

MATHEMATICS – (PART – C)

This part contains **6 Multiple Choice Questions** number **52 to 57**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

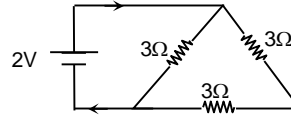
52. If $1 < a < 2$ then $\sqrt{a - 2\sqrt{a-1}} - \sqrt{a + 2\sqrt{a-1}}$ can be
 (A) 2 (B) $-2\sqrt{a-1}$
 (C) 0 (D) $\sqrt{a-1}$
53. The three degree polynomial $f(x)$ has roots of the equation 3, -3 and $-k$. Given that the coefficient of x^3 is 2 and $f(x)$ has a remainder of 8 when divided by $x + 1$, the value of k is
 (A) $\frac{1}{2}$ (B) $\frac{1}{4}$
 (C) $\frac{1}{5}$ (D) 2
54. The number of integers 'a' ($1 \leq a \leq 200$) such that a^a is a perfect square are
 (A) 105 (B) 103
 (C) 107 (D) 109
55. If a, b are zeros of $f(x) = x^2 + px + 1$ and c, d are the zeros of $g(x) = x^2 + qx + 1$ then the value of $E = (a - c)(b - c)(a + d)(b + d)$ is
 (A) $p^2 - q^2$ (B) $q^2 - p^2$
 (C) $q^2 + p^2$ (D) none of these
56. If a flagstaff subtends equal angles at four points A, B, C and D on the horizontal plane through the foot of the flagstaff then A, B, C and D must be the vertices of
 (A) square (B) cyclic quadrilateral
 (C) rectangle (D) parallelogram
57. The value of $\left[\left(1 - \frac{1}{n+1}\right) + \left(1 - \frac{2}{n+1}\right) + \dots + \left(1 - \frac{n}{n+1}\right) \right]$ is
 (A) $\frac{n}{2}$ (B) n
 (C) $n + 1$ (D) $2n$

Space for Rough Work

PHYSICS – (PART – D)

This part contains 2 Numerical Based Questions number 58 to 59. Each question has **Single Digit Answer 0 to 9**.

58. Find the total current in the circuit shown.



59. A current of 3A is flowing in a linear conductor having a length of 40 cm. The conductor is placed in a magnetic field of strength 500 gauss and makes an angle of 30° with the direction of the field. It experiences a force of magnitude $X \times 10^{-2}$ N. What is the value of X?

Space for Rough Work

SAMPLE PAPER

CHEMISTRY – (PART – E)

This part contains 2 Numerical Based Questions number 60 to 61. Each question has Single Digit Answer 0 to 9.

60. pH (power of Hydrogen) value of black coffee is
61. In general, the number of electrons in the outermost shell of a halogen non-metal atom is

Space for Rough Work

SAMPLE PAPER

MATHEMATICS – (PART – F)

This part contains 2 Numerical Based Questions number 62 to 63. Each question has Single Digit Answer 0 to 9.

62. If $a^{x-1} = bc$, $b^{y-1} = ac$, $c^{z-1} = ab$ such that $x, y, z \in$ integer then value of $xy + yz + zx - xyz$ is
63. In an equilateral triangle the circumradius is n times inradius then 'n' is equal to
-

Space for Rough Work

SAMPLE PAPER

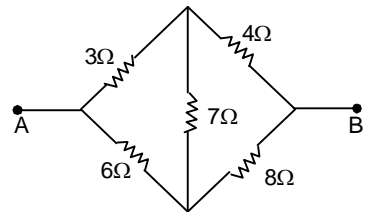
Recommended Time: 60 Minutes for Section – IV

Section – IV

PHYSICS – (PART – A)

*This part contains 5 Multiple Choice Questions number 64 to 68. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

64. In a hydropower plant
 (A) potential energy possessed by stored water is converted into electric energy
 (B) kinetic energy possessed by stored water is converted into potential energy
 (C) electricity is extracted from water
 (D) water is converted into steam to produce electricity
65. Which is the ultimate source of energy?
 (A) water (B) sun
 (C) uranium (D) fossil fuels
66. 10,000 alpha particles per minute are passing through a straight tube of radius r . The resulting electric current is approximately:
 (A) 0.5×10^{-16} amp. (B) 2×10^{12} amp.
 (C) 0.5×10^{12} amp. (D) 2×10^{-12} amp.
67. A wire X is half the diameter and half the length of a wire Y of similar material. The ratio of resistance of X to that of Y is
 (A) 8 : 1 (B) 4 : 1
 (C) 2 : 1 (D) 1 : 1
68. Five resistances have been connected as showing in fig.
 The effective resistance between A & B is
 (A) $\frac{14}{3} \Omega$ (B) $\frac{20}{3} \Omega$
 (C) 14Ω (D) 21Ω



Space for Rough Work

CHEMISTRY – (PART – B)

This part contains 5 Multiple Choice Questions number 69 to 73. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

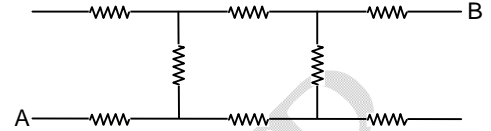
69. What happens when calcium is treated with water?
(i) It does not react with water
(ii) It reacts violently with water
(iii) It reacts less violently with water
(iv) Bubbles of hydrogen gas formed stick to the surface of calcium
(A) (i) and (iv) (B) (ii) and (iii)
(C) (i) and (ii) (D) (iii) and (iv)
70. Blue gold is an alloy of
(A) Gold and aluminum (B) Gold and indium
(C) Gold and silver (D) Gold and copper
71. pH at which methyl orange shows red colour is:
(A) 7 (B) 14
(C) 3 (D) 9
72. When acid reacts with metal carbonate, products are
(A) Salt (B) Water
(C) Carbon dioxide (D) All of above
73. Hydrolysis of water is which type of following reactions?
(A) Endothermic (B) Decomposition
(C) Both (A) and (B) (D) Combination

Space for Rough Work

PHYSICS – (PART – D)

This part contains 3 Numerical Based Questions number 79 to 81. Each question has Single Digit Answer 0 to 9.

79. In the network shown here, each resistance is of $1\ \Omega$.
The equivalent resistance between the points A and B (in ohms) is?



80. Two particles A and B enter a region of uniform magnetic field after being accelerated through the same potential difference. They describe circular paths of radius 4 m and 2 m respectively. They have the equal charge. Find the ratio of mass of A to the mass of B.
81. Two concentric coils, each of radius 2π cm and no of turns one are placed at right angle to each other. The currents flowing in coil are 3 A and 4 A respectively. The magnetic field induction (in $\frac{\text{Wb}}{\text{m}^2}$) at the centre of coils is $B \times 10^{-5}$, B is :

Space for Rough Work

CHEMISTRY – (PART – E)

This part contains 3 Numerical Based Questions number 82 to 84. Each question has Single Digit Answer 0 to 9.

82. Determine the oxidation number of **manganese** in the products as per given equation.
 $\text{H}^+ + 2\text{H}_2\text{O} + 2\text{MnO}_4^- + 5\text{SO}_2 \longrightarrow \text{Products (in acidic solution)}$
83. If the H^+ concentration is 0.000001 M, what is the pOH of the solution?
84. CuFeS_x (copper pyrite) is an ore of copper. What is the value of 'X' here?
-

Space for Rough Work

SAMPLE PAPER

MATHEMATICS – (PART – F)

This part contains 3 Numerical Based Questions number 85 to 87. Each question has Single Digit Answer 0 to 9.

85. If $\sin\theta + \sin^2\theta + \sin^3\theta = 1$, then the value of $\cos^6\theta - 4\cos^4\theta + 8\cos^2\theta$ is x . Find x
86. If the mean of a frequency distribution is 8.1 and $\sum f_i x_i = 132 + 5k$, $\sum f_i = 20$ then the value of 'k' is
87. If the system of equation $3x + y = 1$ and $(2k - 1)x + (k - 1)y = 2k + 1$ is inconsistent then find the value of 'k'.
-

Space for Rough Work

SAMPLE PAPER

FIITJEE SAMPLE PAPER – 2018

(Big Bang Edge Test / Talent Recognition Exam)

for students presently in

Class 10 (Paper 2)

ANSWERS

1.	A	2.	D	3.	D	4.	C
5.	B	6.	C	7.	B	8.	A
9.	A	10.	B	11.	B	12.	D
13.	C	14.	D	15.	A	16.	D
17.	D	18.	C	19.	B	20.	C
21.	A	22.	A	23.	D	24.	B
25.	A	26.	A	27.	B	28.	A
29.	A	30.	C	31.	A	32.	A
33.	B	34.	A	35.	A	36.	C
37.	A	38.	B	39.	B	40.	A
41.	B	42.	A	43.	B	44.	A
45.	D	46.	C	47.	A	48.	D
49.	C	50.	B	51.	D	52.	B
53.	A	54.	C	55.	B	56.	B
57.	A	58.	1	59.	3	60.	5
61.	7	62.	0	63.	2	64.	A
65.	B	66.	A	67.	C	68.	A
69.	D	70.	B	71.	C	72.	D
73.	C	74.	D	75.	C	76.	C
77.	B	78.	C	79.	3	80.	4
81.	5	82.	2	83.	8	84.	2
85.	4	86.	6	87.	2		