FIITJEE – JEE (Main)

Batches: 12th Studying & 12th Pass PHYSICS, CHEMISTRY & MATHEMATICS Mock Test – III QP Code:

Time Allotted: 3 Hours

Maximum Marks: 300

Forthcoming Exam -

FTRE Test on 29th

Dec. 2019

Do not open this Test Booklet until you are asked to do so.

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Important Instructions:

A. General Instructions

- 1. Immediately fill in the particulars on this page of the Test Booklet with *Blue / Black Ball Point Pen. Use of pencil is strictly prohibited.*
- 2. The Answer Sheet is kept inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully.
- 3. The test is of **3 hours** duration.
- 4. The Test Booklet consists of 75 questions. The maximum marks are 300.
- 5. This question paper contains Three Parts.
- 6. Part-I is Physics, Part-II is Chemistry and Part-III is Mathematics.
- 7. Each Part has only one section: Section A.
- 8. Rough spaces are provided for rough work inside the question paper. No additional sheets will be provided for rough work.
- 9. Blank Papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
- 10. Use *Blue / Black Ball Point Pen only* for writing particulars / marking responses on *Side-1* and *Side-2* of the Answer Sheet. *Use of pencil is strictly prohibited.*
- 11. No candidate is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc. except the Admit Card inside the examination hall / room.
- 12. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room / Hall. *However, the candidates are allowed to take away this Test Booklet with them.*
- 13. Do not fold or make any stray marks on the Answer Sheet.

B. Marking Scheme For All Three Parts.

(i) Section-A (01 – 20, 26 – 45, 51 – 70) contains 60 multiple choice questions which have only one correct answer. Each question carries +4 marks for correct answer and –1 mark for wrong answer.

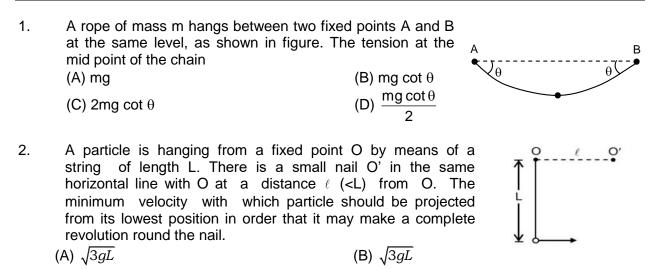
Section-A (21 – 25, 46 – 50, 71 – 75) contains 15 Numerical based questions, the answer of which maybe positive or negative numbers or decimals and each question carries +4 marks for correct answer. There is no negative marking.

Name of the Candidate (in Capital Letters) :			
Enrolment Number :			
Batch :	Date of Examination :		

PART – I: PHYSICS

Section – A: Single Correct Answer Type

This section contains **20 multiple choice questions.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE is correct.**



- $(\mathsf{C})\sqrt{g(5L-3\ell)} \tag{D}\sqrt{g(5\ell-3L)}$
- 3. A ball is thrown with speed v and angle of projection with horizontal is θ . If the coefficient of restitution between ball and horizontal plane is e then the distance travelled by the ball after long time will be

(A)
$$\frac{u^2 \sin^2 \theta}{g} \left(\frac{1}{1 - e^2} \right)$$
 (B) $\frac{u^2 \sin^2 \theta}{g} \left(\frac{1}{1 + e^2} \right)$ (C) $\frac{u^2 \cos^2 \theta}{g} \left(\frac{1}{1 - e^2} \right)$ (D) None of these

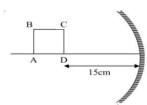
- 4. A constant voltage is applied between the two ends of a uniform metallic wire. Some heat is produced in it. The heat developed is doubled if:
 - (A) Both the length and radius of the wire are halved.
 - (B) Both the length and radius of the wire are doubled.
 - (C) The radius of the wire is doubled.
 - (D) The length of the wire is doubled and the radius of the wire is halved.
- 5. Three identical particles of charges Q and mass m are placed such that they form an equilateral triangle of side *l*. If they are released simultaneously. Then maximum speed attained by any one of the particles will be (Neglect gravity)

(A)
$$Q_{\sqrt{\frac{1}{2\pi\varepsilon_0 m\ell}}}$$
 (B) $Q_{\sqrt{\frac{1}{6\pi\varepsilon_0 m\ell}}}$ (C) zero (D) None of these

6. A wire of length ℓ and resistance R is bend in form of ring the resistance between two points which is separated by angle θ

(A)
$$\frac{R}{4\pi^2}(2\pi-\theta)\theta$$
 (B) $\frac{R\ell}{4\pi^2}(2\pi-\theta)\theta$ (C) $R(2\pi-\theta)$ (D) $R\theta$

- 7. Two identical satellites A and B revolve round the earth in circular orbits at distance R and 3R from the surface of the earth (R = radius of the earth). The ratio of the linear momenta of A and B is (A) 1 : 1 (B) 1: $\sqrt{2}$ (C) $\sqrt{2}$: 1 (D) 2 : 1
- 8. A rectangular loop with a slide wire of length I is kept in a uniform magnetic field as shown in figure. The resistance of slider is R. Neglecting self inductance of the loop find the current in the connector during its motion with a velocity v.
 - (A) $\frac{Blv}{R_1 + R_2 + R}$ (B) $\frac{Blv(R_1 + R_2)}{R + (R_1 + R_2)}$ (C) $\frac{Blv(R_1 + R_2)}{RR_1 + RR_2 + R_1R_2}$ (D) $Blv\left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}\right)$
- 9. A square ABCD of side 1 mm is kept at distance 15 cm in front of the concave mirror as shown in the figure. The focal length of the mirror is 10 cm. The length of the perimeter of its image will be:
 (A) 8 mm
 (B) 2 mm
 (C) 12 mm
 (D) 6 mm



×B

₹R₂

10. The decay constant of a radioactive sample is λ. The half-life and mean-life of the sample are respectively given by:
(A) 1/λ and (ℓ n2)/λ
(B) (ℓ n2)/λ and 1/λ

(C) λ (ℓ n2) and 1/ λ

(D) $\lambda/(\ell n 2)$ and $1/\lambda$

11. A cylindrical hall has a horizontal smooth floor. A ball is projected along the floor from A point on the wall in a direction making an angle θ with the radius through that point. The ball returns back to the initial point after two impacts with the wall. If the coefficient of restitution is e then $\tan^2 \theta$ will be

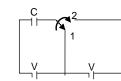
(A) $\frac{1+e+e^2}{3}$	(B) $\frac{1+e}{2}$	(C) $\frac{e^2}{4}$	(D) <u>e³</u>
e^{3}	e^2	(⁻) 1+e	$(-)^{1} + e + e^{2}$

12. 30V 10Ω Find the current through 30Ω resistor which is connected in the network as shown 200 20V 4WW (A) 3A (B) 2A 40[.]V 20V (C) 1A (D) None **30**Ω 10V

13. For the situation shown in figure. Switch is shifted from 1 to 2 at t = 0. The heat loss after a long time is (A) CV^2 (B) $2CV^2$

(C) $\frac{1}{2}$ CV²

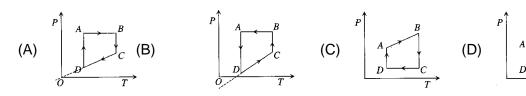
(D)None



(a. 0)

14. Spherical portion has been removed from spherical conducting sphere shown in figure. The electric field at point P is

- (A) $\frac{1}{4\pi \in_0} \frac{q_0}{(a+r)^2}$ (B) $\frac{1}{2\pi \in_0} \frac{q_0}{r^2}$ (C) $\frac{1}{4\pi \in_0} \frac{q_0}{(a+b)^2}$ (D) $\frac{1}{4\pi \in_0} \frac{q_0}{r^2}$
- 15. A cyclic process ABCD is shown in the following P-V diagram. Which of the following curves represents the same process?



16. A uniform and constant magnetic field exists in a region as under $B_o\hat{i} \text{ for } y > \frac{b}{2}; -B_o\hat{i} \text{ for } y < -\frac{b}{2}; \text{ zero for } -\frac{b}{2} \le y \le \frac{b}{2} \text{ Then the current}$ that must be passing through the area enclosed by PQRS shown (A) $\frac{2B_oa}{\mu_o}(-\hat{k})$ (B) $\frac{2B_oa}{\mu_o}(\hat{k})$ (C) $\frac{2B_ob}{\mu_o}(-\hat{k})$ (D) $\frac{2B_ob}{\mu_o}(\hat{k})$ (0, b) (0, b)

17. The power radiated by a black body is P, and it radiates maximum energy around the wavelength λ_0 . If the temperature of black body is now changed so that it radiates maximum energy around a wavelength $\frac{3\lambda_0}{4}$, the new power radiated by it will be



Space for rough work

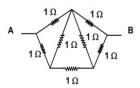
- A photon collides with a stationary hydrogen atom in ground state. Energy of the colliding photon is 10.2eV. After a time interval of the order of micro sec. Another photon collides with same hydrogen atom with an energy of 15 eV. What will be observed by the detector?
 (A) 2 photon of energy 10.2eV
 - (B) 2 photon of energy of 1.4 eV
 - (C) One photon of energy 10.2eV and an electron of energy 1.4eV
 - (D) One photon of energy 10.2eV and another photon of energy 15eV
- 19. A radioactive sample with half life = T emits α -particles. Its total activity is A_i at some time and A_i at a later time. The number of α -particles emitted by the sample between these two points in time is :

(A)
$$A_i - A_t$$
 (B) $\frac{T}{\ln 2}(A_i - A_t)$ (C) $\frac{\ln 2}{T}(A_i - A_t)$ (D) $\frac{T}{\ln 2}\left[\frac{1}{A_t} - \frac{1}{A_i}\right]$

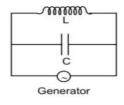
20. In an ideal double slit experiment, when a glass plate (refractive index 1.5) of thickness t is introduced in the path of one of the interfering beams (wavelength λ), the intensity at the position where the central maximum occurred previously remains unchanged. The minimum thickness of the glass plate is:
(A) 2λ
(B) 2λ/3
(C) λ/3
(D) λ

Section – A Numerical based questions

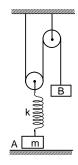
- 21. A uniform solid hemisphere of radius r is joined to uniform solid right circular cone of base of radius r. Both have same density. The centre of mass of the composite solid lies on the common face. The height (h) of the cone is $(\sqrt{x})r$. Find 'x'?
- 22. Effective resistance between A and B is $x/7 \Omega$. Find the value of 'x'.



23. For the circuit shown in the figure, the current through the inductor is 0.6 A, while the current through the capacitor is 0.4 A. The current drawn from the generator is $\frac{x}{10}$ A. Find 'x'.



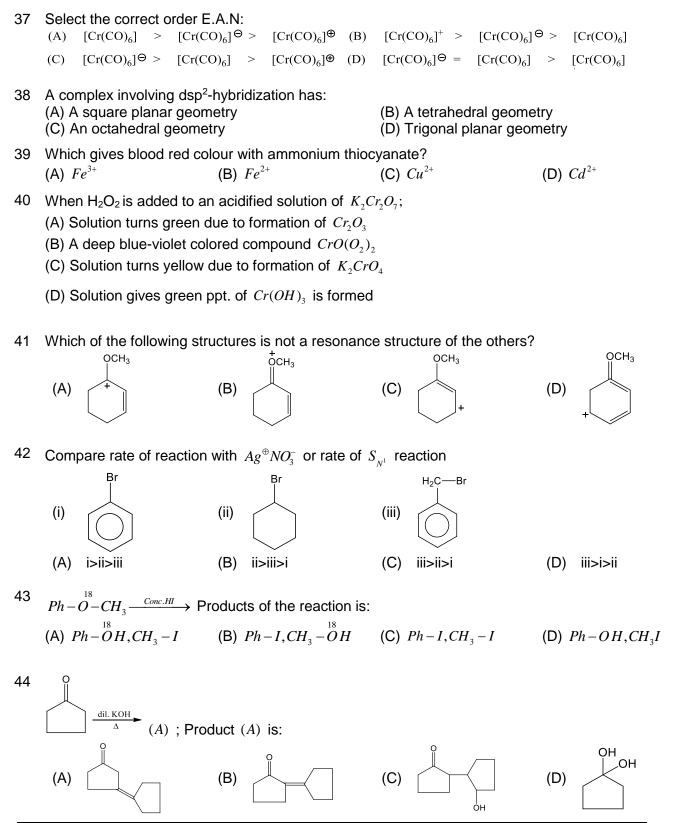
24. Find the minimum mass of block B so that A leaves the surface when B is released from rest spring is initially at natural length (take m = 8 kg)

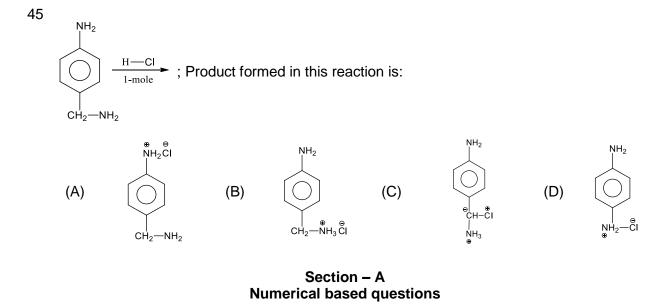


25. Refractive index of the material of a prism is $\sqrt{2}$ and its refracting angle is 30° . One of the refracting surfaces of the prism is made a mirror inwards. A beam of monochromatic light entering the prism from the other face will retrace its path after reflection from the mirrored surface if its angle of incidence on the prism is $x \times 15^{\circ}$ then find the value of 'x'.

PART – II: CHEMISTRY Section – A: Single Correct Answer Type

	is section contains 20 mu d (D), out of which ONLY (P 1	oices (A), (B), (C)
26	The normality of a solution	on of sodium hydroxide 1	00 mL of which contains	4 grams of NaOH is
	(A) 0.1	(B) 40	(C) 1.0	(D) 0.4
27	The oxidation number of	phosphorus in $Ba(H_2PO)$	$\left(2_{2}\right) _{2}$ is	
	(A) –1	(B) +1	(C) +2	(D)+3
28	The volume-temperature constant pressure are pressures			$ \begin{array}{c c} \uparrow & P_2 & P_3 \\ V & P_1 & P_1 \end{array} $
	(A) $P_1 > P_3 > P_2$		(B) $P_1 > P_2 > P_3$	
	(C) $P_2 > P_3 > P_1$		(D) $P_3 > P_1 > P_3$	
29	Which of the following co (A) NaH ₂ PO ₄ + Na ₂ HPO ₄ (C) NaH ₂ PO ₄ + Na ₃ PO ₄		es not make a buffer? (B) NaHCO ₃ + H ₂ CO ₃ (D) KHCO ₃ + K ₂ CO ₃	
30	The fraction of total volur	ne occupied by the atom	s present in a simple cub	e is
	(A) $\frac{\pi}{6}$	(B) $\frac{\pi}{3\sqrt{2}}$	(C) $\frac{\pi}{4\sqrt{2}}$	(D) $\frac{\pi}{4}$
31	Cyclopropane rearranges This follows first order kir cyclopropane is 16 M. W (A) 0.035 M	netics The half life is 13.8		
32	Ce(58) is a member of ; (A) $s - block$	(B) p-block	(C) <i>d</i> -block	(D) f – block
33	Which of the following m (A) Ortho-nitrophenol	olecules has intramolecu (B) Ortho-boric acid	llar H-bonding? (C) Both (A) and (B)	(D) none of these
34	Select the methanides fro		w: $C M_g C_2 Ba C_2$ III IV	
	(A) I only	(B) <i>I</i> and IV	(C) I and II	(D) <i>I</i> , <i>II</i> , <i>III</i> & <i>IV</i>
35	When iodine is dissolved (A) Brown	in CCl₄, the colour that r (B) Blusish green	esults is : (C) Violet	(D) Colorless
36	The bonds present in bole (A) 12σ , 3π	azole are: (Β) 9σ,6π	(C) 6σ,6π	(D) 9σ,9π





- 46. If $H_x[Pty_6]$, y is a monodentate charged ligand then find the out the value of x :
- 47. Glucose molecules reacts 'X' number of molecules of phenylhydrazine to yield osazone. The value of X is:
- 48. $aMnO_4^- + bC_2O_4^{2-} + cH^+ \longrightarrow dMn^{2+} + eCO_2 + fH_2O$ What will be the value of (a + b - d) if the above reaction is balanced?
- 49. What is the pH of 0.2 M CH₃COONH₄ solution? [Given K_a of CH₃COOH = K_b of NH₄OH = 10^{-5}]
- 50. K_{a_1} and K_{a_2} of a dibasic acid H_2XO_3 are respectively 10^{-6} and 10^{-10} . What is the pH of 0.001 M NaHXO₃ solution?

PART – III: MATHEMATICS

Section – A: Single Correct Answer Type

This section contains 20 multiple choice questions. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct. If the coefficient of $t^8 in(1+t^2)^{12}(1+t^{12})(1+t^{24})$ is ${}^{m}C_n$, then find the greatest value of m-n. 51. (B) 4 (A) 2 (C) 6 (D) 8 52. If $f(x) = \{x^2\}$, where $\{x\}$ denotes the fractional part of x, then (A) f(x) is continuous at x = 2 but not at x = -2(B) f(x) is continuous at x = -2 but not at x = 2(C) f(x) is continuous at x = -2 and x = 2(D) f(x) is discontinuous at x = 2 and x = -253. Let r be the radius of circle passing through (0, 5) and (6, 1) and whose center lies on the line 12x + 5y = 25, then value of 3r is (A) 12 (B) 13 (C) 14 (D) 15 Let z_k (k = 0, 1, 2, 3, 4, 5, 6) be the roots of the equation $(z+1)^7 + (z)^7 = 0$, then $\sum_{k=0}^{6} \text{Re}(z_k)$ is 54. equal to (B) $\frac{3}{2}$ (C) $-\frac{7}{2}$ (D) 7/2 (A) 0 If f is continuous on [0, 1] such that $f(x) + f\left(x + \frac{1}{2}\right) = 1$ and $\int_{0}^{1} f(x) dx = k$, then value of 2K is 55. (A) 0 (C) 2 (D) 3 (B) 1 If $f(x) = 64x^3 + \frac{1}{x^3}$ and α, β are the roots of $4x + \frac{1}{x} = 2$, then 56. (A) $f(\alpha) = -64$ (B) $f(\beta) = -8$ (D) $f(\alpha) = -24$ (C) $f(\beta) = -16$ 57. Let p and q be two statements, then $\sim (\sim p \land q) \land (p \lor q)$ is logically equivalent to (C) p ∨ q (A) q (B) p (D) p ^ q If $\lim_{\theta \to 0} \left(\frac{1 + a \cos \theta}{\theta^2} - \frac{b \sin \theta}{\theta^3} \right) = 1$, and the value of a + b is $-\lambda$, then the value of λ is 58. (A) 2 (B) 4 (C) 6 (D) 8 59. If the system of equations $\lambda p + q + r = 0$, $p + \lambda q + r = 0$, $p + q + \lambda r = 0$ has non-trivial solution, then the value of λ can be the roots of equation (A) $x^3 - 3x + 2 = 0$ (B) $x^3 - x + 2 = 0$ (C) $x^3 + 4x + 1 = 0$ (D) $x^2 - 2x + 2 = 0$

-	• •		ways in which 4 shoes (D) 80
			can be (D) 55
If $S_n = 1 + \frac{1}{2} + \frac{1}{2^2} + \dots + \frac{1}{2^2}$	$\frac{1}{2^{n-1}}$, $n \in \mathbb{N}$, then least ve	alue of n such that 2-	$S_n < \frac{1}{100}$ is
(A) 8	(B) 7	(C) 9	(D) 6
The shortest distance	e between the skew lir	nes $\frac{x+3}{-4} = \frac{y-6}{3} = \frac{z}{2}$ and	$\frac{x+2}{-4} = \frac{y}{1} = \frac{z-7}{1}$ is
(A) 3	(B) 6	(C) 7	(D) 9
If $\alpha + \beta = \frac{\pi}{2}, \alpha \neq \beta$ and β	$3 + \gamma = \alpha$, then the value	of $\frac{\tan \alpha - \tan \beta}{\tan \gamma}$ is	
(A) 1	(B) 2	(C) 3	(D) –2
With usual notations in a triangle ABC, if $\angle A = \frac{\pi}{2}$ and $a + b + c = \Delta$, then $b + c - a$ is equal to			
(A) 1	(B) 2	(C) 3	(D) 4
		ving $f'(x) < 2$ for all $x \in R$	and $f(1) = 2$, then greatest
possible integral valu (A) 5	ie of f(3) is (B) 6	(C) 7	(D) 8
If $0 < x < \frac{\pi}{2}$, $\int \sqrt{1 + \sec x}$	$dx = 2\sin^{-1}\left(a\sin\frac{x}{b}\right) + C,$	where C is an arbitrary	y constant, then ordered
pair (a,b) is			
(A) (1,√2)	(B) (√2,1)	(C) $(\sqrt{2}, 2)$	(D) (2, √2)
0		general solution of th	he differential equation
$\frac{d^2y}{dx^2} = e^{-3x}$ can be expl	pressed as		
(A) $y = 9e^{-3x} + c_1x + c_2$		· · · · ·	2
(C) $y = 3e^{-3x} + c_1x + c_2$		(D) $y = \frac{e^{-3x}}{9} + c_1 x + c_2$	
	can be drawn from it (A) 200 The following data set 18, 11, 12, a, 16, 11, (A) 33 If $S_n = 1 + \frac{1}{2} + \frac{1}{2^2} + \dots + \frac{1}{2^2} + \dots + \frac{1}{2^2} + \dots + \frac{1}{2^2} + \dots + \frac{1}{2^2}$ (A) 8 The shortest distance (A) 3 If $\alpha + \beta = \frac{\pi}{2}, \alpha \neq \beta$ and β (A) 1 With usual notations (A) 1 If f(x) is a different possible integral value (A) 5 If $0 < x < \frac{\pi}{2}, \int \sqrt{1 + \sec x}$ pair (a,b) is (A) $(1,\sqrt{2})$ If C ₁ , C ₂ are arbitration $\frac{d^2y}{dx^2} = e^{-3x}$ can be explicitly (A) $y = 9e^{-3x} + c_1x + c_2$	can be drawn from it such that there will be (A) 200 (B) 160 The following data set has a mean 14.7 and 18, 11, 12, a, 16, 11, 19, 14, b, 13, then po (A) 33 (B) 46 If $S_n = 1 + \frac{1}{2} + \frac{1}{2^2} + \dots + \frac{1}{2^{n-1}}$, $n \in N$, then least value (A) 8 (B) 7 The shortest distance between the skew line (A) 3 (B) 6 If $\alpha + \beta = \frac{\pi}{2}$, $\alpha \neq \beta$ and $\beta + \gamma = \alpha$, then the value (A) 1 (B) 2 With usual notations in a triangle ABC, if α (A) 1 (B) 2 If f(x) is a differentiable function satisfy possible integral value of f(3) is (A) 5 (B) 6 If $0 < x < \frac{\pi}{2}$, $\int \sqrt{1 + \sec x} dx = 2\sin^{-1}(a\sin\frac{x}{b}) + C$, $\frac{\pi}{2}$ pair (a,b) is (A) $(1,\sqrt{2})$ (B) $(\sqrt{2},1)$	The following data set has a mean 14.7 and a variance of 10.01. 18, 11, 12, a, 16, 11, 19, 14, b, 13, then possible value of 2a + b of (A) 33 (B) 46 (C) 64 If $S_n = 1 + \frac{1}{2} + \frac{1}{2^2} + \dots + \frac{1}{2^{n-1}}$, $n \in N$, then least value of n such that 2 – (A) 8 (B) 7 (C) 9 The shortest distance between the skew lines $\frac{x+3}{-4} = \frac{y-6}{3} = \frac{z}{2}$ and (A) 3 (B) 6 (C) 7 If $\alpha + \beta = \frac{\pi}{2}$, $\alpha \neq \beta$ and $\beta + \gamma = \alpha$, then the value of $\frac{\tan \alpha - \tan \beta}{\tan \gamma}$ is (A) 1 (B) 2 (C) 3 With usual notations in a triangle ABC, if $\angle A = \frac{\pi}{2}$ and $a + b + c = \Delta$, (A) 1 (B) 2 (C) 3 If $f(x)$ is a differentiable function satisfying $f'(x) < 2$ for all $x \in R$ possible integral value of $f(3)$ is (A) 5 (B) 6 (C) 7 If $0 < x < \frac{\pi}{2}$, $\int \sqrt{1 + \sec x} dx = 2 \sin^{-1} \left(a \sin \frac{x}{b} \right) + C$, where C is an arbitrary pair (a,b) is (A) $(1, \sqrt{2})$ (B) $(\sqrt{2}, 1)$ (C) $(\sqrt{2}, 2)$ If C_1 , C_2 are arbitrary constants then general solution of the $\frac{d^2y}{dx^2} = e^{-3x}$ can be expressed as (A) $y = 9e^{-3x} + c_1x + c_2$ (B) $y = -3e^{-3x} + c_1x + c_2$

69. If A is a diagonal matrix of non-positive entries and order 3 such that A² = I, then
(A) There may exist some diagonal element in A which is zero.
(B) Value of |A| is -1
(C) A⁻¹ does not exist
(D) |3 adj 2A| = -1728

70. $X = \{1,2,3,4,...,10\}$ and $A \subset X; B \subset X$; where $P \subset Q$ denotes that P is subset of $Q(P \neq Q)$. Then number of ways of selecting ordered pair of sets A and B such that $A \cup B \subset X$.

(A) $4^{10} - 3^{10}$ (B) 3^{10} (C) $\frac{4^{10} - 3^{10}}{2}$ (D) $\frac{3^{10} - 1}{2}$

Section – A Numerical based questions

- 71. The tangent to $y = ax^2 + bx + \frac{7}{2}at(1, 2)$ is Parallel to the normal at the point (-2, 2) on the curve $y = x^2 + 6x + 10$ then the value of 2(a b) is
- 72. Let a, b, c, are three distinct real numbers such that the lines ax+by+c = 0, bx+cy+a=0and cx + ay + b = 0 are concurrent and the line $3x + 2y - \lambda = 0$ passes though their point of intersection, then value of λ is
- 73. A 10 digit numbers is chosen with odd digits. If the probability that no two consecutive digits are same is $\left(\frac{4}{\lambda}\right)^{\mu}$, then the value of $(\mu \lambda)$ is

74. If f'(3) = 2, then the value of
$$\lim_{h \to 0} \frac{f(3+h^2) + f(3-h^2) - 2f(3)}{2h^2}$$
 is

75. The number of values of x in the interval $\left[0, \frac{7\pi}{2}\right]$ satisfying the equation $6\sin^2 x + \sin x - 2 = 0$ is

FIITJEE – JEE (Mains) Batches: 12th Studying & 12th Pass

Mock Test – III

QP Code:

ANSWER KEY

SECTION - I (PHYSICS)

PART-A							
1. 5. 9. 13. 17.	D A C C D	2. 6. 10. 14. 18.	C A B D C	3. 7. 11. 15. 19.	D C D A B	4. 8. 12. 16. 20.	B C C A A
21.	3	22.	8	PART-C 23.	2	24.	2
25.	3		Ū	20.	-	_	-
SECTION – II (CHEMISTRY) PART-A							
26.	С	27.	В	28.	А	29.	С
30.	А	31.	В	32.	D	33.	А
34.	С	35.	С	36.	А	37.	С
38.	А	39.	Α	40.	В	41.	D
42.	С	43.	А	44.	В	45.	В
			-	PART-C	_		_
46.	2	47.	3	48.	5	49.	7
50.	8						
SECTION – III (MATHEMATICS) PART-A							
51.	D	52.	D	53.	В	5 4.	С
55.	В	56.	С	57.	В	58.	В
59.	Α	60.	D	61.	В	62.	Α
63.	D	64.	В	65.	D	66.	Α
67.	С	68.	D	69.	В	70.	Α
				PART-C			
71.	7	72.	5	73.	4	74.	0
75.	7						