

FIITJEE**MOCK TEST-2**

ANSWERS, HINTS & SOLUTIONS
MOCK TEST
(Main)

MOCK TEST-2 (Additional) Code:100383.1

Q. No.	PHYSICS	CHEMISTRY	MATHEMATICS
1.	B	A	B
2.	D	A	C
3.	B	B	B
4.	C	D	C
5.	B	B	D
6.	A	C	C
7.	A	A	B
8.	A	D	D
9.	A	A	B
10.	D	A	C
11.	C	B	D
12.	C	B	D
13.	C	B	A
14.	A	A	B
15.	C	D	B
16.	A	A	A
17.	B	A	D
18.	B	B	C
19.	B	D	A
20.	D	D	B
21.	C	A	B
22.	D	A	A
23.	C	B	D
24.	A	A	C
25.	A	B	B
26.	A	C	C
27.	B	B	D
28.	B	C	D
29.	D	A	C
30.	A	C	D

Physics**PART – I****SECTION – A**

1. Respective equation of motion are given by

$$v_1 = v_0 - \mu g t, \quad v_2 = \frac{\mu g t}{4}$$

finally v_1 and v_2 will be same.

2. Both m and $2m$ will come down with same acceleration without friction
3. Just after elastic collision velocity of A will be $-v_0$
4. Consider a strip as shown in figure.

$$E = \frac{\lambda}{2\pi\epsilon_0 r}$$

$$\text{Where } r = \frac{d}{\cos\theta}$$

$$\therefore d\phi = \frac{\lambda}{2\pi\epsilon_0 r} \ell d \times \cos\theta$$

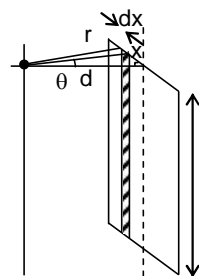
$$\text{Also } x = d \tan\theta$$

$$\Rightarrow dx = \sec^2\theta d\theta$$

$$\Rightarrow d\phi = \frac{\lambda \cos\theta}{2\pi\epsilon_0 \left(\frac{d}{\cos\theta}\right)} \times d \sec^2\theta d\theta \therefore \ell = \frac{\lambda \ell}{2\pi\epsilon_0} d\theta$$

$$\therefore \phi_2 = \int_{-\alpha}^{\alpha} \frac{\lambda \ell}{2\pi\epsilon_0} d\theta = \frac{\lambda \ell (2\alpha)}{2\pi\epsilon_0} \text{ where } \tan\alpha = \frac{b}{2d}$$

$$= \frac{\lambda \ell}{\pi\epsilon_0} \tan^{-1}\left(\frac{b}{2d}\right)$$



5. At origin no mass present hence $g = 0$. for any circular path in yz plane cavity A and B are symmetrically located, hence potential will be same
 \Rightarrow Field at $(2, 0, 0)$ is superposition of two fields: fields due to negative mass enclosed in cavity A and field due to positive mass enclosed in a sphere of radius $2m$, as there two masses are different hence field can't be zero.
6. Option (A)
 NOT ((A AND B) OR (NOT A))

$$= \overline{(A \bullet B) + (\bar{A})} = \overline{(A \bullet B)} \bullet \overline{(\bar{A})} = (\bar{A} + \bar{B}) \bullet A = A \bullet \bar{B}, \text{ which matches with the given truth table.}$$

Option (B)
 (A OR B) AND B
 $(A + B) \bullet B = A \bullet B + B = (A + 1) \bullet B = B$

Option (C)
 NOT ((A AND B) OR B)
 $\overline{(A \bullet B + B)} = \overline{(A + 1)} \bullet \bar{B} = \bar{B}$

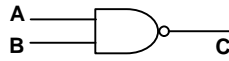
Option (D)

$$\text{NOT } (A \text{ AND } B) \equiv (A \text{ NAND } B)$$

$$\overline{(A \bullet B)} = \overline{A} + \overline{B}$$

NAND and NOR gates are known as universal gates because all other gates can be expressed in terms of them (either NAND or NOR).

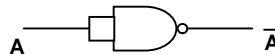
NAND GATE:



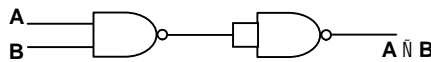
A	B	$\overline{A \cdot B}$
0	0	1
0	1	1
1	0	1
1	1	0

Standard gates in terms of NAND

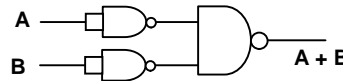
NOT GATE:



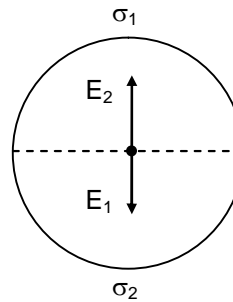
AND GATE:



OR GATE:



7.
$$E_{\text{net}} = E_1 - E_2 = \frac{\sigma_1}{4\epsilon_0} - \frac{\sigma_2}{4\epsilon_0}$$



8.
$$evB = eE$$

$$E = Bv = \frac{B\omega l}{2}$$

9.
$$\vec{a} \cdot \vec{B} = 0$$

$$\Rightarrow (x\hat{i} + 2\hat{j} - 6\hat{k}) \cdot (2\hat{i} + 2\hat{j} + \hat{k}) = 0$$

$$\Rightarrow 2x + 4 - 6 = 0$$

$$\Rightarrow x = 1$$

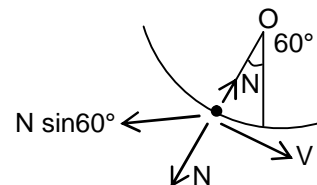
10. If v be speed at then

$$mgh = \frac{1}{2}mv^2$$

$$\Rightarrow v^2 = 2gh = 2gr \cos 60^\circ = gr$$

If N be the force applied by surface on ball, then

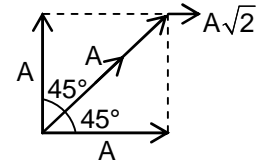
$$N - mg \cos 60^\circ = \frac{mv^2}{r}$$



$$N = \frac{mv^2}{r} + \frac{mg}{2}$$

$$= mg + \frac{mg}{2} = \frac{3}{2}mg = \frac{3}{2} \times 1 \times 10 = 15 \text{ N}$$

11. As shown in figure
 Resultant amplitude = $A\sqrt{2} + A$
 $= A(\sqrt{2} + 1)$ at 45° from first SHM
 Total energy = $\frac{1}{2}m\omega^2 [A(\sqrt{2} + 1)^2]$
 $= 8(3 + 2\sqrt{2}) \times \frac{1}{2}m\omega^2 A^2$
 $= (3 + 2\sqrt{2}) \times \text{energy of one SHM}$



12. If R is the radius of the tank and r that of the hole, then

$$-\pi R^2 \frac{dh}{dt} = \pi r^2 \sqrt{2gh}$$

$$\frac{t_1}{t_2} = \frac{\int_0^{h/2} \frac{dh}{\sqrt{h}}}{\int_{h/2}^h \frac{dh}{\sqrt{h}}} = \frac{\frac{\sqrt{h}}{2} - \sqrt{h}}{0 - \sqrt{\frac{h}{2}}} = \sqrt{2} - 1$$

13. the Doppler formula holds for non collinear motion if v_s and v_o are taken to be the resolved components along the line of sight.

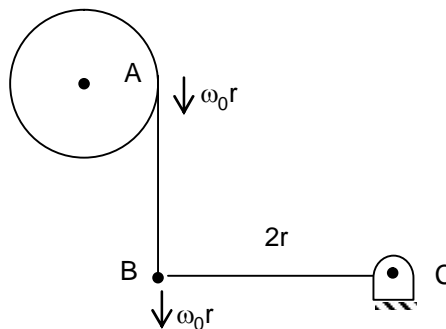
$$v_o = v_t \sin 45^\circ = \frac{30}{\sqrt{2}} \text{ m/s}$$

$$v_s = v_t \sin 45^\circ = \frac{30}{\sqrt{2}} \text{ m/s}$$

$$\therefore f' = f_0 \left[\frac{v - v_o}{v - v_s} \right] = 200 \text{ Hz}$$

14. $F_{\text{net}} = ma$
 $= mg$

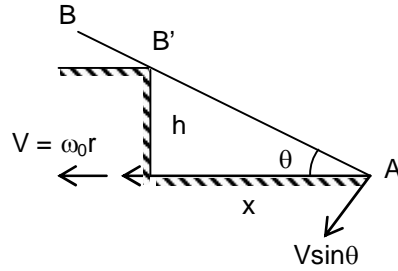
15. AB rod has only $V_{\text{CM}} = \omega_0 r$; $\omega = 0$
 BC rod has $\omega_{\text{BC}} = \frac{\omega_0 r}{2r} = \frac{\omega_0}{2}$



16. For maximum intensity
 $[\mu t - t] = \lambda$
 $\Rightarrow t = 2\lambda$

$$17. \quad \omega_{AB} = \frac{V \sin \theta}{AB} = \frac{\omega_0 r h}{(h^2 + x^2)^{1/2} (h^2 + x^2)^{1/2}}$$

$$= \frac{\omega_0 r h}{h^2 + x^2}$$



18. Two impulse acts on ball friction impulse and normal impulse N.

$$I = 0 - m(-v) \text{ [for board]}$$

$$\Rightarrow I = mv$$

Also for ball, we have (in y-axis)

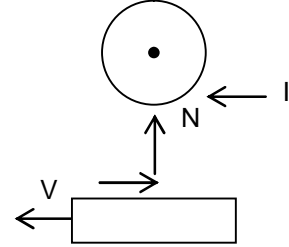
$$N = m \frac{v}{2} - m(-v) = \frac{3}{2}mv$$

But any time

$$I = \mu N$$

$$\Rightarrow mv = \mu \frac{3}{2}mv$$

$$\Rightarrow \mu = \frac{2}{3}$$



$$19. \quad \text{Initial energy} = \frac{1}{2}CV^2 + \frac{1}{2}2C(4V)^2 = \frac{33}{2}CV^2$$

$$\text{Also total charge} = CV + 2C \times 4V = 9CV = q$$

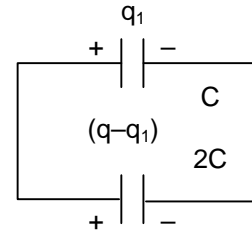
If after connection q_1 appears on C

$$\Rightarrow \frac{q_1}{C} = \frac{q - q_1}{2C}$$

$$\Rightarrow 3q_1 = q$$

\Rightarrow

$$\Rightarrow \text{Final energy} = \frac{1}{2} \frac{(3CV)^2}{C} + \frac{1}{2} \frac{(6CV)^2}{2C} = \frac{27CV^2}{2}$$



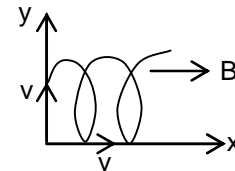
20. Resulting motion is helical with $T = \frac{2\pi}{B_0 \alpha}$

$$\text{At } t = \frac{\pi}{B_0 \alpha}; \text{ i.e. } \frac{1}{2} \text{ time period}$$

$$x = v \times \frac{\pi}{B_0 \alpha} = \frac{v_0 \pi}{B_0 \alpha}$$

$$y = 0$$

$$z = -2 \times \text{radius} = \frac{-2v_0}{B\alpha}$$



$$21. \quad i = \frac{e}{T}$$

$$\text{Now } T^2 \propto r^3 \text{ and } r \propto n^2 \Rightarrow T \propto n^3$$

$$\therefore i \propto \frac{1}{n^3}$$

\therefore the current will increase 8 times.

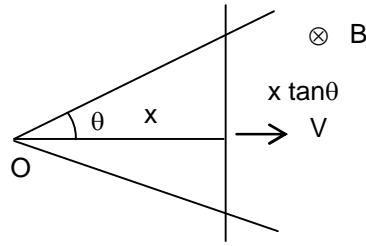
22. From theory of MCG

23. Let wire is at x distance from O at any time

$$\Rightarrow \phi = \frac{1}{2} \times x \times (2x \tan \theta) \times B = Bx^2 \tan \theta$$

$$\varepsilon = \frac{d\phi}{dt} = B \tan \theta 2x \frac{dx}{dt} = 2B \tan \theta vx$$

$$i = \frac{2B \tan \theta v_x}{(2x \tan \theta)k} = \frac{Bv}{k}$$

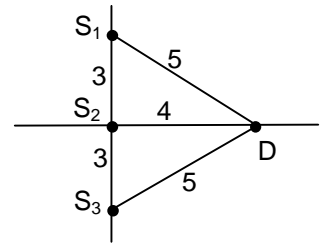


24. For resultant intensity same as source, path different between sources at (0,3) and (0,0) must be $\lambda/2$ same for (0, -3) and (0, 0).

so, $\lambda/2 = 5 - 4 = 1$

$\Rightarrow \lambda = 2m$

$f = \frac{v}{\lambda} = 150 \text{ Hz}$



25. $f_{\max} = f \left(\frac{v_s - 0}{v_s - v} \right) = 2f \Rightarrow v = \frac{v_s}{2}$

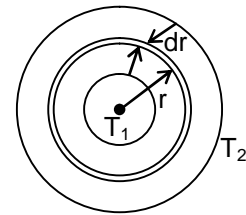
26. Let T_1 and T_2 be temperature at inner and outer surface in steady condition

$$P = \frac{d\theta}{dt} = -\frac{K4\pi r^2}{dr} dT$$

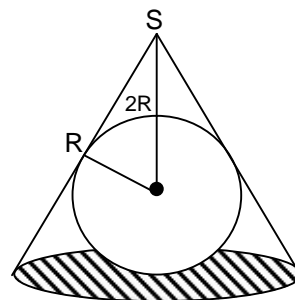
$$\Rightarrow \int_{R_1}^{R_2} \frac{dr}{r^2} = -\frac{4\pi k}{P} \int_{T_1}^{T_2} dT$$

$$\frac{R_2 - R_1}{R_1 R_2} = \frac{4\pi k}{P} (T_1 - T_2)$$

Thickness $(R_2 - R_1) = \frac{4\pi k}{P} T \times R^2$ [$\therefore R_1 R_2 = R^2$]



27. Area = $\pi (\sqrt{3} R)^2 = 3\pi R^2$



28. From COM
 $m_2 v_0 = m_1 v_1$
 $\Rightarrow v_1 = \frac{m_2}{m_1} v_0$

From mirror formula

$$\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$$

$$\Rightarrow -\frac{1}{v^2} \frac{dv}{dt} - \frac{1}{u^2} \frac{du}{dt} = 0$$

$$v_{\text{imag/mirror}} = -\left(\frac{v^2}{u^2}\right) \times \text{velocity}_{\text{ob/mirror}}$$

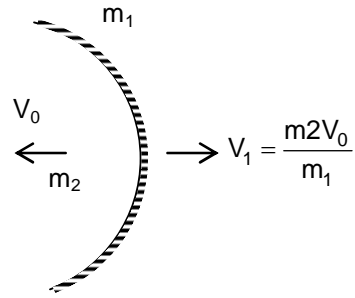
At the time of fringe $v = u$ (\therefore bullet in at pole) $\Rightarrow \frac{v}{u} = 1$

$$\therefore (v_{\text{imag}} - v_{\text{mirror}}) = -v_{\text{object}} + v_{\text{mirror}}$$

$$v_{\text{image}} = 2v_{\text{mirror}} - v_{\text{object}}$$

$$= 2\frac{m_2}{m_1} v_0 - (-v_0) = \frac{2m_2}{m_1} v_0 + v_0$$

$$\text{Separation speed} = \frac{2m_2 v_0}{m_1} + v_0 + v_0 = 2\left(1 + \frac{m_2}{m_1}\right) v_0 \Rightarrow B$$



29. $\lambda = \frac{hc}{eV}$ $\lambda_B > \lambda_A \Rightarrow v_B < v_A$

Also

$$\frac{1}{\lambda_k} = (z-1)^2 \left[\frac{1}{1^2} - \frac{1}{2^2} \right] = \frac{3}{4} (z-1)^2$$

So, $(k\alpha)_B < (k\alpha)_A$

$$\Rightarrow z_B > z_A$$

30. Frequency of revolution in n^{th} orbit is

$$f_n = \frac{\omega_n}{2\pi} = \frac{v_n}{2\pi r_n}$$

$$\therefore f(2) = \frac{2.18 \times 10^6 \times \frac{z}{n}}{2\pi \times 0.528 \times 10^{-10} \times \frac{n^2}{2}}$$

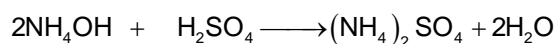
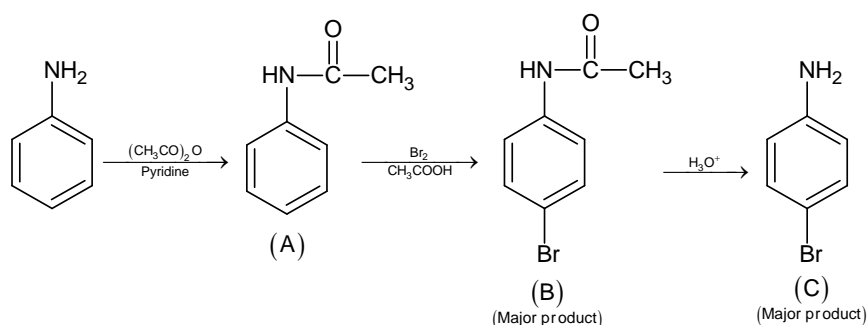
$$\text{No of revolution made in } 10^{-8} \text{ sec} = \frac{2.18 \times 10^6 \times z^2 \times 10^{-8}}{2\pi \times 0.5 \times 10^{-10} \times n^3} = 8.2 \times 10^6$$

Chemistry

PART – II

SECTION – A

1.



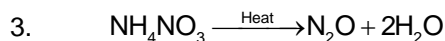
2.	initial(m.mole)	1		0.4		
	final (m.mole)	0.2	0		0.4	

Resulting solution is a basic buffer.

$$\text{pOH} = 4.76 + \log \frac{0.8}{0.2}$$

$$\text{pOH} = 4.76 + 0.6020 = 5.362$$

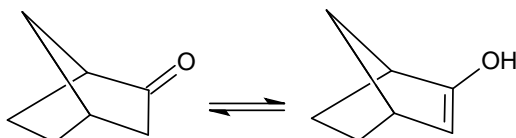
$$\text{pH} = 14 - 5.362 = 8.638$$



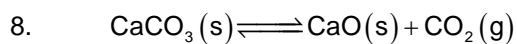
4. The carbohydrate (A) is lactose.

5. $\text{Si}_2(\text{Si}_2\text{O}_7)$ is a pyrosilicate. Silicates containing $(\text{Si}_2\text{O}_7)^{6-}$ ion are pyrosilicates.

6.



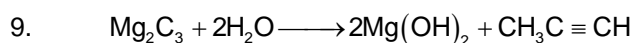
7. Equanil is an antidepressant.



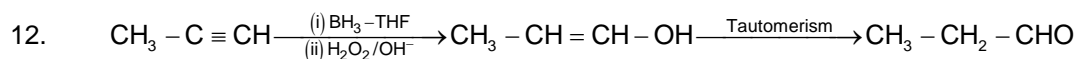
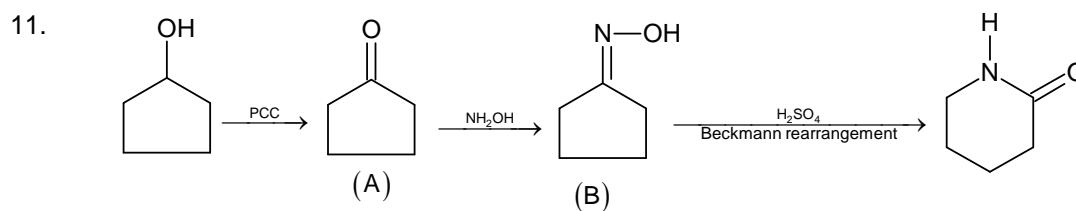
$$\text{Number of moles of CO}_2 \text{ at equilibrium} = \frac{22 \times 40}{44 \times 100} = 0.2$$

$$K_p = P_{\text{CO}_2} = \frac{nRT}{V} = \frac{0.2 \times 0.0821 \times 1000}{10}$$

$$= 1.642 \text{ atm}$$



10. $\text{N}(\text{SiH}_3)_3$ is less basic than $\text{N}(\text{CH}_3)_3$.



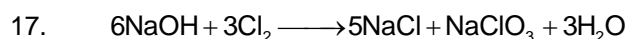
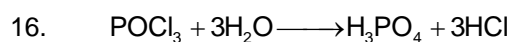
13. Coagulation power of $[\text{Fe}(\text{CN})_6]^{4-}$ is highest.

14. Mole fraction of B in vapour phase = $Y_B = 0.8$
Mole fraction B in liquid phase = $X_B = 0.2$

$$Y_B = \frac{P_B^\circ X_B}{P}$$

$$P_B^\circ = \frac{Y_B P}{X_B} = \frac{0.8 \times 200}{0.2} = 800 \text{ mm}$$

15. The reaction $\text{FeS} + \text{Cu}_2\text{O} \longrightarrow \text{FeO} + \text{Cu}_2\text{S}$ does not take place in Bessemer converter.



18. $\Delta S = \frac{\Delta H_{\text{vap}}}{T_b}$

$$T_b = \frac{30 \times 1000}{75} = 400 \text{ K}$$

19. $\frac{\text{IE of He}^+}{\text{IE of Li}^{2+}} = \frac{4}{9}$

$$\text{IE of Li}^{2+} = 19.6 \times 10^{-18} \times \frac{9}{4}$$

$$= 4.41 \times 10^{-17} \text{ J atm}^{-1}$$

$$\text{Energy of 1}^{\text{st}} \text{ stationary state of Li}^{2+} = 4.41 \times 10^{-17} \text{ J atm}^{-1}$$

20. Cumulene with even number of cumulated double bond can not exhibit geometrical isomerism.

21. $G^\circ = -nFE_{\text{cell}}^\circ$

$$E_{\text{cell}}^\circ = -\frac{G^\circ}{nF}$$

$$= \frac{-(-2800 \times 1000)}{26 \times 96500}$$

$$= 1.11 \text{ V}$$

22. NaBH_4 does not reduce esters.

23. Nitriles are selectively reduced by DIBAL-H.

24. $3\text{HgCl}_2 + 2\text{PH}_3 \longrightarrow \text{Hg}_3\text{P}_2 + 6\text{HCl}$
 $3\text{CuSO}_4 + 2\text{PH}_3 \longrightarrow \text{Cu}_3\text{P}_2 + 3\text{H}_2\text{SO}_4$
 $\text{P}_4 + 8\text{SOCl}_2 \longrightarrow 4\text{PCl}_3 + 4\text{SO}_2 + 2\text{S}_2\text{Cl}_2$
25. Neoprene is a polymer of chloroprene.
26. $n = \frac{90}{45} = 2$
 $P_A = \frac{P_A^0}{2^2} = \frac{200}{4} = 50 \text{ mm}$
- | | | | | | |
|--------------|---------------|-------------------|----------------|--|----------------|
| | A(g) | \longrightarrow | 2B(g) | | $+\text{C(s)}$ |
| Initial | 200mm | | 0 | | 0 |
| After 90 min | 50 mm | | 300mm | | 0 |
- Total pressure after 90 min = 300 + 50 = 350 mm.
27. Alkoxymercuration – demercuration reaction.
28.
$$= \frac{Z \times M}{a^3 \times N_A}$$

$$M = \frac{8 \times (3 \times 10^{-8})^3 \times N_A}{1}$$
Number of atom in 216 g = $\frac{216 \times N_A}{8(3 \times 10^{-8})^3 \times N_A} = 10^{24}$
Number of unit cell in 216 g = $= \frac{10^{24}}{Z} = \frac{10^{24}}{1} = 10^{24}$
29. Number of moles of HCl = $\frac{25 \times 0.01}{1000} = 20 \times 10^{-5}$
Number of moles of $\text{Ba(OH)}_2 = \frac{50 \times 0.01}{1000} = 50 \times 10^{-3}$
Number of moles of $\text{OH}^- = 2 \times 50 \times 10^{-5} = 10^{-3}$
Heat liberated = $13.7 \times 20 \times 10^{-5} \text{ kcal}$
= $274 \times 10^{-5} \text{ kcal}$
= 2.74 cal.
30. $[\text{CO}(\text{NH}_3)_6]^{3+}$ is an inner orbital complex.

Mathematics**PART – III****SECTION – A**

1. The plane will be angle bisector of the given planes

$$\Rightarrow \left(\frac{x + 2y + 2z - 10}{3} \right) = \pm \left(\frac{2x - y - 2z - 9}{3} \right)$$
2. For $OA + OB = k$, $k \in (4, 2\sqrt{5})$ there will be two straight lines and for $k = 2\sqrt{5}$, there will be only one line and that will be passing through the centre of the circle
3. $t_n = 2^{n+1} - 2n - 1$
4. Projection =
$$\left| \frac{(2\vec{a} + 3\vec{b} + 4(\vec{a} \times \vec{b})) \cdot (\vec{a} \times \vec{b})}{|\vec{a} \times \vec{b}|} \right| = 4|\vec{a} \times \vec{b}| = 8\sqrt{2}$$
5. Variance =
$$\frac{\sum_{r=1}^n (\bar{x} - x_r)^2}{n}$$

 \Rightarrow New variance = 1
7. Let top point of pole be P, then $BP \cot 30^\circ = AB$ and $BP \cot 60^\circ = BC$ and $AB^2 + BC^2 = AC^2$
 $\Rightarrow BP = 3$
8. $m = n = 0$
 $\Rightarrow m + n = 0$
9. $(2, -2)$ lies on the axis of parabola and its distance from vertex of parabola is half of latus rectum
 \Rightarrow Only one normal is possible
10. Required cases = 16, total cases = 36
 Required probability = $\frac{4}{9}$
11. For $x \in [0, \pi]$, $f(x)$ will be dis-continuous at infinite points
 $\Rightarrow f(x)$ is non-differentiable at infinite points
12. Equation of line is $\sqrt{5}x - y - 21 = 0$
13. $\frac{dy}{e^y} = (e^x + e^{-x}) dx \Rightarrow -e^{-y} = e^x - e^{-x} + c \Rightarrow e^{-y} = e^{-x} - e^x + c$
15. $(r_1 - 3)^2 + (r_2 - 3)^2 + (r_3 - 3)^2 = 0$
 $\Rightarrow \Delta ABC$ is equilateral
 \Rightarrow Area = $3\sqrt{3}$
17. $\tan^{-1} \left(\frac{m^4 + m^2 + 2}{2m} \right) = \frac{\pi}{2} - \tan^{-1} \left(\frac{2m}{m^4 + m^2 + 2} \right)$
 $\Rightarrow \sum_{m=1}^{\infty} \tan^{-1} \left(\frac{m^4 + m^2 + 2}{2m} \right) = \sum_{m=1}^{\infty} \left(\frac{\pi}{2} \right) - \frac{\pi}{4} = \text{infinite}$

18. $a = -1, b = 0, c = \frac{5}{2}$
 $\Rightarrow 2a + 3b + 4c = 8$
19. $f(a) = \frac{3a^2}{16}$
 $\Rightarrow f(4) = 3$
20. $x^5 - 1 = (x - 1)(x - \alpha_1)(x - \alpha_2)(x - \alpha_3)(x - \alpha_4)$
 Put $x = i$ and i^3
 $\Rightarrow \left(\frac{i - \alpha_1}{i + \alpha_1}\right)\left(\frac{i - \alpha_2}{i + \alpha_2}\right)\left(\frac{i - \alpha_3}{i + \alpha_3}\right)\left(\frac{i - \alpha_4}{i + \alpha_4}\right) = \frac{(i^5 - 1)(i^3 - 1)}{(i - 1)(i^{15} - 1)} = 1$
22. Equation of Asymptotes is $3x^2 - 3y^2 + 8xy - 16x + 12y + 4 + k = 0$
 \Rightarrow Angle between Asymptotes is 90°
 \Rightarrow Eccentricity is $\sqrt{2}$
23. $(\sqrt{5} + \sqrt{3})^{1001} = \sum_{r=0}^{1001} {}^{1001}C_r (5)^{\frac{1001-r}{2}} (3)^{\frac{r}{2}}$
 \Rightarrow Number of rational terms = 0
24. $|A| = a + d - 1$
25. Let $I = \int_{-1}^1 x \ln(1^x + 2^x + 3^x + 6^x) dx$
 $\Rightarrow I = -1 + 2 \int_{-1}^1 x \ln(6) dx$
 $\Rightarrow I = \frac{\ln 6}{3}$
26. $f(x) = x^2 - x + 2$
 $\Rightarrow \int_{-2}^2 f(x) dx = \frac{40}{3}$
27. $y = \cos^{-1}\left(\frac{\sqrt{x} - 1}{\sqrt{x} + 1}\right) + \sin^{-1}\left(\frac{\sqrt{x} - 1}{\sqrt{x} + 1}\right) = \frac{\pi}{2} \Rightarrow \frac{dy}{dx} = 0$
28. Director circle of the circle $2x^2 + 2y^2 - 12x - 16y + 25 = 0$ passes through origin
 \Rightarrow Angle between tangents is 90°
29. $f(x) = 4 \Rightarrow x = 0, 1, 2$
 $\Rightarrow f(f(x)) = 4 \Rightarrow f(x) = 0, 1, 2$
30. $f(0) = 3$
 $\Rightarrow f'(0) \cdot g'(3) = 1$
 $\Rightarrow g'(3) = -\frac{1}{4}$

FIITJEE**MOCK TEST-2****MOCK TEST-2 (Additional) Code:100383.2****ANSWERS, HINTS & SOLUTIONS
MOCK TEST
(Main)**

Q. No.	PHYSICS	CHEMISTRY	MATHEMATICS
1.	A	C	C
2.	A	A	B
3.	A	D	D
4.	A	A	B
5.	D	A	C
6.	C	B	D
7.	C	B	D
8.	C	B	A
9.	A	A	B
10.	C	D	B
11.	A	A	A
12.	B	A	D
13.	B	B	C
14.	B	D	A
15.	D	D	B
16.	C	A	B
17.	D	A	A
18.	C	B	D
19.	A	A	C
20.	A	B	B
21.	A	C	C
22.	B	B	D
23.	B	C	D
24.	D	A	C
25.	A	C	D
26.	B	A	B
27.	D	A	C
28.	B	B	B
29.	C	D	C
30.	B	B	D

FIITJEE**MOCK TEST-2****MOCK TEST-2 (Additional) Code:100383.3****ANSWERS, HINTS & SOLUTIONS
MOCK TEST
(Main)**

Q. No.	PHYSICS	CHEMISTRY	MATHEMATICS
1.	A	B	B
2.	A	C	C
3.	B	B	D
4.	B	C	D
5.	D	A	C
6.	A	C	D
7.	B	A	B
8.	D	A	C
9.	B	B	B
10.	C	D	C
11.	B	B	D
12.	A	C	C
13.	A	A	B
14.	A	D	D
15.	A	A	B
16.	D	A	C
17.	C	B	D
18.	C	B	D
19.	C	B	A
20.	A	A	B
21.	C	D	B
22.	A	A	A
23.	B	A	D
24.	B	B	C
25.	B	D	A
26.	D	D	B
27.	C	A	B
28.	D	A	A
29.	C	B	D
30.	A	A	C

FIITJEE**MOCK TEST-2****MOCK TEST-2 (Additional) Code:100383.4****ANSWERS, HINTS & SOLUTIONS
MOCK TEST
(Main)**

Q. No.	PHYSICS	CHEMISTRY	MATHEMATICS
1.	C	A	B
2.	D	A	A
3.	C	B	D
4.	A	A	C
5.	A	B	B
6.	A	C	C
7.	B	B	D
8.	B	C	D
9.	D	A	C
10.	A	C	D
11.	B	A	B
12.	D	A	C
13.	B	B	B
14.	C	D	C
15.	B	B	D
16.	A	C	C
17.	A	A	B
18.	A	D	D
19.	A	A	B
20.	D	A	C
21.	C	B	D
22.	C	B	D
23.	C	B	A
24.	A	A	B
25.	C	D	B
26.	A	A	A
27.	B	A	D
28.	B	B	C
29.	B	D	A
30.	D	D	B