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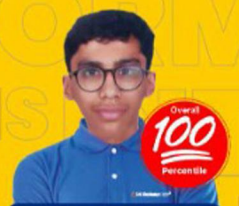

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*in One or More Subjects

JEE Main – 03rd April – 2025 (Shift-1)

[Memory Based Questions]

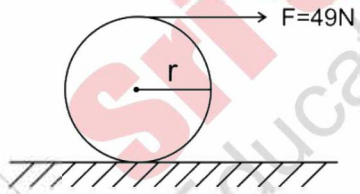
PHYSICS

1. The work function of a metal 3ev. The colour of the visible light that is required to cause emission of photo electrons is

a) Yellow b) Blue c) Red d) Green

Ans: (b)

2. A force of 49 N acts tangentially at the highest point of a sphere (solid of mass 20 kg) kept on a rough horizontal plane. If the sphere rolls without slipping, then the acceleration of the center of the sphere is



a) 0.25 m/s^2 b) 2.5 m/s^2 c) 3.5 m/s^2 d) 0.35 m/s^2

Ans: (c)

3. A particle is released from height 's' above the surface of the earth. At certain height it's K.E is 3 times of PE. The height from the surface of the earth and the speed of the Particle at the instant are respectively.

a) $\frac{s}{4}, \sqrt{\frac{3gs}{2}}$ b) $\frac{s}{2}, \sqrt{\frac{3gs}{2}}$ c) $\frac{s}{2}, \frac{3gs}{2}$ d) $\frac{s}{4}, \frac{3gs}{2}$

Ans: (a)

4. The Electrostatic potential on the surface of uniformly charged spherical shell of radius R = 10 cm is 120 V. The potential at the centre of shell, at a distance 5 cm from centre and a distance 15 cm from the centre of the shells are

a) 40V, 40V, 80V b) 120V, 120V, 80V c) 0V, 120V, 40V d) 0V, 0V, 80V

Ans: (b)

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5. In YDSE, light of intensity of 41 and 91 passes through two slits respectively. Difference of maximum and minimum intensity of interference pattern is

a) 16 I b) 30 I c) 24 I d) 35 I

Ans: (c)

6. Power of point source is 450 watts. Radiation pressure on a perfectly reflecting surface at a distance of 2 m is

a) 1.5×10^{-8} b) 3×10^{-8} c) 0 d) 6×10^{-8}

Ans: (d)

7. A person measures mass of 3 different Particles as 453.42 g, 226.3 g, 0.125 g. According to the rules for arithmetic progression operations with significant figures, the addition of the masses of 3 particles will be.

a) 661.84 g b) 661.845 g c) 661.8 g d) 662 g

Ans: (c)

8. Match the List I and list II

List - I		List - II	
A	Gravitational constant	I	LT^{-2}
B	Gravitational potential energy	II	L^2T^{-2}
C	Gravitational potential	III	ML^2T^{-2}
D	Acceleration due to gravity	IV	$M^{-1}L^3T^{-2}$

a) A–III, B–IV, C–II, D–I

b) A–IV, B–III, C–II, D–I

c) A–II, B–IV, C–III, D–I

d) A–III, B–II, C–IV, D–I

Ans: (b)

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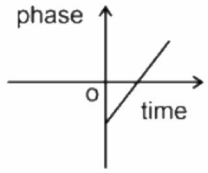
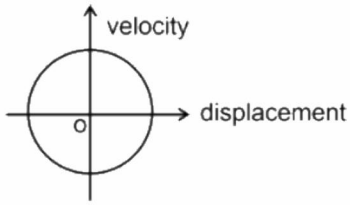
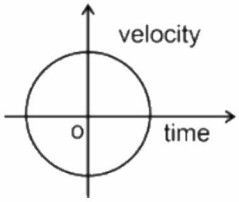
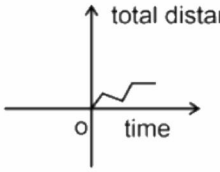
9. Which of the following curves possibly represent one dimensional motion of a particle?

A 

B 

C 

D 

a) A and B b) A, B, D c) A, B, C d) A, C, D

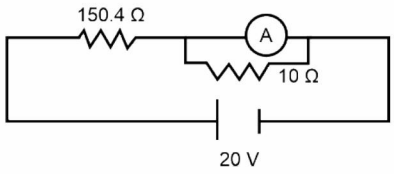
Ans: (b)

10. A thin uniform wire of length 25 m and area of cross section 5 mm^2 has resistivity $2 \times 10^{-6}\Omega$ m. If the wire is bent to form a circle, the resistance across diametrically opposite points is

a) 5Ω b) 2.5Ω c) 10Ω d) 12.5Ω

Ans: (b)

11. An ammeter having resistance 240Ω is connected in the given circuit as shown. Find the current through the ammeter.



a) 1 mA b) 5 mA c) 100 mA d) 10 mA

Ans: (b)

12. An ideal gas with an adiabatic exponent 1.5, initially at 27°C is compressed adiabatically from 800 cc to 200 cc. The final temperature of gas is

a) 600 K b) 273 K c) 450 K d) 300 K

Ans: (a)

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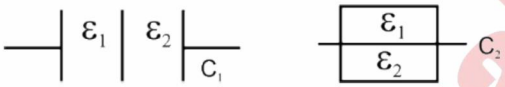
13. The radii of the curvature for a thin convex lens are 10 cm and 15 cm respectively. The focal length of the lens is 12 cm. The refractive index of the lens material is

a) 1.2 b) 1.8 c) 1.4 d) 1.5

Ans: (d)

14. What is the ratio of $\frac{C_1}{C_2}$?



Ans: $\frac{4\epsilon_1\epsilon_2}{(\epsilon_1+\epsilon_2)^2}$

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CHEMISTRY

1. Which of following has highest atomic number?

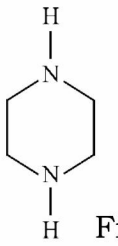
a) Pb b) Pt c) Pr d) Po

Ans: (d)

2. Which of the following show spin only magnetic moment of 4.9 B.M.?

a) Mn^{2+} b) Fe^{3+} c) Cr^{2+} d) Co^{2+}

Ans: (c)



3. Find the volume of nitrogen in ml when 0.42 g of this compound is subjected to Duma's method?

a) 109 b) 121 c) 117 d) 103

Ans: (a)

4. Order of limiting molar conductivity for cations in water at 298K is?

H^+, Na^+, K^+, Ca^{2+}, Mg^{2+}

a) $H^+ > K^+ > Na^+ > Mg^{2+} > Ca^{2+}$ b) $H^+ > Na^+ > K^+ > Ca^{2+} > Mg^{2+}$

c) $Na^+ > K^+ > H^+ > Ca^{2+} > Mg^{2+}$ d) $H^+ > K^+ > Ca^{2+} > Na^+ > Mg^{2+}$

Ans: (b)

5. 2 moles each of Ethylene glycol and glucose are mixed with 500 ml of water. Find the boiling point of Solution. $k_b = 0.52k/kg/m$

a) 377.16 K b) 368.84 K c) 376.16 K d) 369.84 K

Ans: (a)

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6. Match the following List-I with List-II and choose the correct option.

	List-1 (Compounds)		List-II (Shape and Hybridization)
(A)	PF_5	(I)	Tetrahedral and sp^3
(B)	SF_6	(II)	Square planar and dsp^2
(C)	$Ni(CO)_4$	(III)	Octahedral and sp^3d^2
(D)	$[PtCl_4]^{2-}$	(IV)	Trigonal bipyramidal and sp^3d

a) A-IV, B-II, C-I, D-III
b) A-II, B-IV, C-III, D-I
c) A-IV, B-III, C-I, D-II
d) A-I, B-II, C-III, D-IV

Ans: (c)

7. Wave length absorption order of following complexes
1) $[Co(NH_3)_6]^{3+}$
2) $[Co(NH_3)_5H_2O]^{3+}$
3) $[Co(CN)_6]^{3-}$
4) $[Co(NH_3)_5Cl]^{2+}$

a) $2 < 1 < 3 < 4$
b) $3 < 1 < 2 < 4$
c) $1 < 2 < 3 < 4$
d) $4 < 3 < 2 < 1$

Ans: (b)

8. 0.5 g of an organic compound gives 1.46 g CO_2 and 0.9 g H_2O. What is the percentage of carbon in organic sample?

a) 74
b) 60
c) 54
d) 80

Ans: (d)

9. Which is correct?
(1) $A + e^- \longrightarrow A^{\ominus}$ is always exothermic
(2) $A \longrightarrow A^+ + E^-$ is always endothermic
(3) IE_1 of(Be) < IE_1 of(B)
(4) Lithium is most electropositive in its group.

(a) Only 4 is correct
(b) Only 3 is correct
(c) All are correct
(d) Only 2 is correct

Ans: (d)

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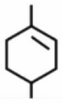
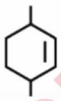
10. Identify the reactant of following reaction.

Reactant $\xrightarrow[Zn-H_2O]{O_3}$ 3-methy - 6-ketoheptanal

a) b) c)  d) 

Ans: (c)

11. $FeCl_3 + KOH + H_2C_2O_4 \rightarrow (A)$

Find the number of optical isomers of product A

a) 2 b) 6 c) 4 d) 8

Ans: (a)

12. The given reaction is at equilibrium starting with only PCl_5

$PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$

When addition of Xe gas takes place at constant pressure, then which of the following is correct?

a) Conc. of PCl_3 will become more than Cl_2

b) PCl_3 and Cl_2 will have same concentration at new equilibrium.

c) Conc. of Cl_2 will become more than PCl_3

d) PCl_3 will be 30% and Cl_2 will be 70% at the new equilibrium

Ans: (b)

13. Consider the following statements

Statement I: N – N has less bond strength than P – P

Statement II: All group- 15 elements in +3 oxidation state undergo disproportionation.

In the light of above statements, choose the correct option.

a) Statement I and statement II both are correct

b) Statement I and statement II both are incorrect

c) Statement I is correct statement II is incorrect

d) Statement I is incorrect statement II is correct

Ans: (c)

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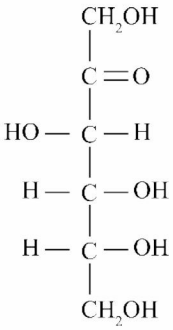
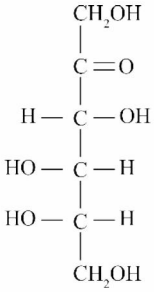
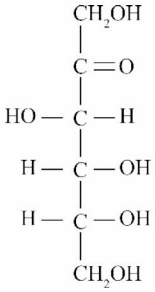
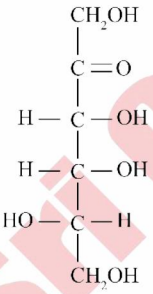
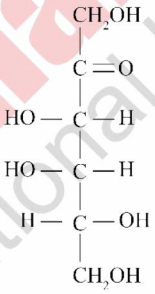
14. Identify the structure of L-Fructose. Given the structure of D-fructose is



a) 

b) 

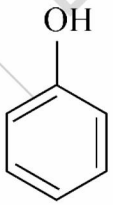
c) 

d) 

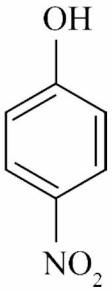
Ans: (b)

15. Which of the following is more acidic than others?

a)

b) 

c)

d) 

Ans: (a)

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MATHEMATICS

1. $1 + 3 + 11 + 25 + 45 + \ldots\ldots$ Find summation upto 20 terms.

   Ans: 7240

2. $\sum_{r=1}^{9}\left(\frac{r+3}{2^r}\right)9C_r = \alpha\left(\frac{3}{2}\right)^9 - \beta$, find $(\alpha+\beta)^2$

   Ans: 81

3. A be a 3×3 matrix such that $\text{Det}A = 5$. If $\left|3\text{adj}\left(2\text{Adj}(2A)\right)\right| = 2^\alpha 3^\beta 5^\gamma$, then $\alpha+\beta+\gamma =$

   a) 25 b) 24 c) 27 d) 28

   Ans: (a)

4. Let $a_1, a_2, a_3 \ldots$ are in GP, where $a_3.a_5 = 729$ and $a_2 + a_4 = \frac{111}{4}$, then $24(a_1+a_2+a_3) =$

   a) 131 b) 130 c) 129 d) 128

   Ans: (c)

5. Radius of smallest circle touching $x = y^2 + 2$, $y = x^2 + 2$ is _____.

   Ans: $7\sqrt{2}/8$

6. The sum of all rational numbers in $(2+\sqrt{3})^8$ is

   a) 18117 b) 18817 c) 17280 d) 1800

   Ans: (b)

7. Let R be a relation on a set $\{-3,-2,-1,0,1,2,3\}$ defined by xRy whenever $0 \le x^2 + 2y \le 4$.

   Here x = how many relations in given set &
   y = how many to be added to turn it into reflexive, find $x + y =$

   Ans: 18

8. Th number of solutions of the equation $2x + 3\tan x = \pi$, $x \in [-2\pi, 2\pi] - \left\{\pm\frac{\pi}{2}, \pm\frac{3\pi}{2}\right\}$ is

   a) 4 b) 5 c) 3 d) 6

   Ans: (b)

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9. Let $f(x) = \int x^3\sqrt{3-x^2}dx$. If $5f(\sqrt{2}) = -4$ then $f(1)$ is equal to

a) $-\frac{2\sqrt{2}}{5}$ b) $-\frac{6\sqrt{2}}{5}$ c) $-\frac{4\sqrt{3}}{5}$ d) $-\frac{8\sqrt{2}}{5}$

Ans: (b)

10. Let $z \in C$ such that $\frac{z^2+3i}{z-2+i} = 2+3i$ then sum of all possible values of z^2 is

a) $-19-2i$ b) $19+2i$ c) $-19+2i$ d) $19-2i$

Ans: (a)

11. $\int_0^x g(t)dt = x - \int_0^x \text{tg}(t)dt$ and $\frac{dy}{dx} - y\tan x = 2\sec x(1+x)g(x)$, $y(0) = 0$; then $y\left(\frac{\pi}{3}\right)$ is _____

Ans: $\frac{4\pi}{3}$

12. Let $f(x) = \begin{cases} (1+ax)^{1/x} & ,x<0 \\ 1+b & ,x=0 \\ \frac{(x+4)^{1/2}-2}{(x+c)^{1/3}-2} & ,x>0 \end{cases}$ be continuous at $x=0$ than e^abc is equal to

a) 64 b) 48 c) 72 d) 36

Ans: (b)

13. If $f(x) = \begin{vmatrix} \sin x & \cos x & \sin x + \cos x + 1 \\ 27 & 28 & 27 \\ 1 & 1 & 1 \end{vmatrix}$. Then the value of $f''(x) + f(x)$ is

a) –1 b) 28 c) 27 d) 1

Ans: (a)

14. If the number of seven-digit numbers such that the sum their digits is even is $m.n.10^n$ where $m, n \in \{1,2,3 \ldots,9\}$ then $m+n$ is equal to

Ans: 14

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