Paper Code: 02

CAREER POINT

Scholastic Test for Analysis and Reward

CLASS - 12th (PCM)

(Class 12th Studying Students)

Duration: 2:00 hours

Maximum marks: 300

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Instructions to Candidates

1. CP Star Test paper consists of total 75 questions and has been divided in three sections as follows:

a. Physics

- Chemistry b
- Mathematics С.
- 25 Questions 25 Questions 25 Ouestions

Que, No, 01 to 25 Que, No, 26 to 50 Oue, No. 51 to 75

- 2. All questions are compulsory.
- 3. All the answers will be encircled in OMR sheet which is being provided along with this paper.
- 4. For every correct answer marked by you, **4** marks will be allotted.
- 5. For every incorrect answer marked by you, **1** marks will be deducted.
- 5. Use of calculator is not permitted in any case.
- 7. Any kind of malpractice will expelyou from exam immediately.
- 8. For any confusion please talk to the invigilator in the examination hall.
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SECTION-a [PHYSICS]

Q.1 A large sheet carries uniform surface charge density σ . A rod of length 2ℓ has a linear charge density λ on one half and $-\lambda$ on the other half. The rod is hinged at mid-point O and makes angle θ with the normal to the sheet. The torque experienced by the rod is (consider electric field due to sheet of charge



Q.2 The field pattern is shown due to two point charges 1 and 2. Then $\frac{q_1}{q_2} =$



Q.3 In the given electric field

 $E = [(d + x) \hat{i} + E_0 \hat{j}] N/C a hypothetical$ closed surface is taken as shown in figure.The total charged enclosed within the closesurface is -







Q.5 Two parallel plate air filled capacitors each of capacitance C, are joined in series to a battery of emf V. The space between the plates of one of the capacitors is then completely filled up with a uniform dielectric having dielectric constant K. The quantity of charge which flows through the battery is -

(1)
$$\frac{\text{CV}}{2} \left(\frac{\text{K}-1}{\text{K}+1} \right)$$
 (2) $\frac{\text{CV}}{2} \left(\frac{\text{K}+1}{\text{K}-1} \right)$
(3) $\text{CV} \left(\frac{\text{K}-1}{\text{K}+1} \right)$ (4) $\text{CV} \left(\frac{\text{K}+1}{\text{K}-1} \right)$

Q.6 Six metallic plates each with a surface area of one side A, are placed at a distance d from each other. The alternate plates are connected to points P and Q as shown in figure :



Q.7 Eels are able to generate current with biological cells called electroplaques. The electroplaques in an eel are arranged in 100 rows, each rwo stretching horizontally along the body of the fish containing 5000 electroplaques. arrangement The is suggestively shown below. Each electroplaque has an emf of 0.15 V and internal resistance of 0.25Ω . The water surrounding the eel completes a circuit between the head and its tail. If the water surrounding it has a resistance of 500 Ω , the current an eel can produce in water is about



Q.8 In the circuit shown in figure the potential difference between the points C and D is balanced against 40 cm length of potentiometer wire of total length 100 cm. In order to balance the potential difference between the points D and E, where should jockey be pressed on potentiometer wire i.e. balance length is-



Q.9 A conductor with rectangular cross-section has dimensions $(a \times 2 \ a \times 4 \ a)$ as shown in figure. Resistance across AB is R₁, across CD is R₂ and across EF is R₃. Then



Q.10 Shown in the figure is a conductor carrying a current I. The magnetic field intensity at the point O(common centre of all the three arcs) is :



Q.11 If a charged particle of charge to mass ratio $\frac{q}{m} = \alpha$ enters in a magnetic field of strength B at a speed v = (2\alpha d)(B), then -



- angle subtended by the path of charged particle in magnetic field at the center of circular path is 2π
- (2) the charge will move on a circular path and then will come out from magnetic field at some distance from the point of insertion
- (3) the time for which particle will be in the magnetic field is $\frac{2\pi}{\pi P}$
- (4) angle subtended by the path of charged particle in magnetic field at the center of circular path is $\pi/2$
- Q.12 A rigid conducing wire bent as shaped in the figure, is released to fall freely in a horizontal magnetic field which is perpendicular to the plane of the conductor. If the magnetic field strength is B, then the emf induced across the points A and C when it has fallen through a distance h will be -



Q.13 A wooden stick of length 3ℓ is rotated about an end with constant angular velocity ω in a uniform magnetic field B perpendicular to the plane of motion. If the upper one-third of its length is coated with copper, the potential difference across the whole length of the stick is



Q.14 In the circuit shown, voltmeter reads 100V. Then L is



Q.15 Mean value of the given alternating current (A.C.) for half cycle (0 to T/2), is -







Q.17 Calculate value of i for which light ray will retrace its original path-



Space for rough work

Q.18 A ray of light is incident on a plane mirror along a vector $\hat{i} + \hat{j} - \hat{k}$. The normal on incidence point is along $\hat{i} + \hat{j}$. Then unit vector along the reflected ray is -

(1)
$$\frac{1}{\sqrt{3}} (\hat{i} + \hat{j} + \hat{k})$$
 (2) $-\frac{1}{\sqrt{3}} (\hat{i} + \hat{j} + \hat{k})$
(3) $\frac{1}{\sqrt{3}} (-\hat{i} - \hat{j} + \hat{k})$ (4) None of these

Q.19 Energy levels A, B, C of a certain atom corresponds to increasing values of energy, i.e., $E_A < E_B < E_C$. If λ_1 , λ_2 and λ_3 are the wavelengths of radiations corresponding to the transitions, C to B, B to A and C to A respectively, which of the following statement is correct ?



Q.20 The radius of the nth Bohr orbit of hydrogen like atom of atomic number Z is given by :

(where k =
$$\frac{1}{4\pi\epsilon_0}$$
)
(1) $\frac{n^2h^2}{4\pi^2kZme^2}$ (2) $\frac{k\pi h}{4\pi^2Zme^2}$
(3) $\frac{n^2h^2}{2\pi^2kZme^2}$ (4) $\frac{nh}{2\pi^2kZme^2}$

Q.21 A sample of radioactive material decays simultaneously by two processes A and B with half-lives $\frac{1}{2}$ hr and $\frac{1}{4}$ hr, respectively. For first half hour it decays with the process A, next one hour with the process B, and for further half an hour with both A and B. If originally there were N₀ nuclei, find the number of nuclei after 2h of such decay.

(1)
$$\frac{N_0}{(2)^8}$$
 (2) $\frac{N_0}{(2)^4}$ (3) $\frac{N_0}{(2)^6}$ (4) $\frac{N_0}{(2)^5}$

- **Q.22** During mean life of a radioactive element, the fraction that disintegrates is -
 - (1) e (2) $\frac{1}{e}$ (3) $\frac{e-1}{e}$ (4) $\frac{e}{e-1}$
- **Q.23** Photon and electron are given same energy (10^{-20} J) . Wavelength associated with photon and electron are λ_{Ph} and λ_{el} , then correct statement will be -

(1)
$$\lambda_{Ph} > \lambda_{el}$$
 (2) $\lambda_{Ph} < \lambda_{el}$
(3) $\lambda_{Ph} = \lambda_{el}$ (4) $\frac{\lambda_{el}}{\lambda_{Ph}} = C$

Q.24 If potential of 20 kV is applied across coolidge tube then wavelength that can not emitted from coolidge tube is

(1) 0.5 Å	(2) 0.8 Å
(3) 1 Å	(4) 100 Å

Q.25 Light described at a place by the equation $E = (100 \text{ V/m}) [\sin (5 \times 10^{15} \text{ s}^{-1}) \text{ t}$

 $+\sin(8\times10^{15}\,\mathrm{s}^{-1})\,\mathrm{t}$]

falls on a metal surface having work function 2eV.

Calculate the max. K.E. of the photo electron.

(1) 5.27 eV (2) 1.71 eV

(3) 3.27 eV (4) 0.854 eV

SECTION-b [CHEMISTRY]

- Q.26 Which of the following statements is incorrect ?
 - When NaCl reacts with acidified dichromate, it forms CrO₂Cl₂ which forms yellow precipitate with NaOH
 - (2) $K_2Cr_2O_7$ form deep blue solution of CrO_5 with H_2O_2 in acidic medium
 - (3) KMnO₄ is prepared form pyrolusite ore (MnO₂)
 - (4) Both KMnO₄ and K₂Cr₂O₇ are coloured due to charge transfer spectra
- Q.27 The rate law of the reaction,

 $A + 2B \longrightarrow Product,$ Product is given by $\frac{d[P]}{dt} = K[A]^2 \cdot [B].$ If A is taken in large excess, the order of the reaction will be :
(1) zero
(2) 1
(3) 2
(4) 3

Q.28 Molar conductance Λ_m is plotted against \sqrt{C} (mol litre⁻¹) for three electrolytes (NaCl, HCl, NH₄OH)



which of the following is correct

1	2	3
(1) NaCl	HCl	NH ₄ OH
(2) HCl	NaCl	NH ₄ OH
(3) NH ₄ OH	NaCl	HC1
(4) NH ₄ OH	HCl	NaCl

Q.29 A body centered cubic lattice is made up of hollow spheres of B. Spheres of solid A are present in hollow spheres of B. Radius A is half of radius of B. What is the ratio of total volume of spheres of B unoccupied by A in a unit cell and volume of unit cell ?

(1)
$$\frac{7\sqrt{3\pi}}{64}$$
 (2) $\frac{7\sqrt{3}}{128}$ (3) $\frac{7.\pi}{24}$ (4) $\frac{7\pi}{64\sqrt{3}}$

Q.30 Assuming complete ionization, the solution having maximum freezing point will be (1) 1 M CaF₂
(2) 1.5 M Al₂(SO₄)₃
(3) 2 M NaCl
(4) 1 M AgNO₃

Q.31 Consider the following complexes -

(i) K_2PtCl_6 (ii) $PtCl_4.2NH_3$ (iii) $PtCl_4.3NH_3$ (iv) $PtCl_4.5NH_3$ Their electrical conductances in aq. solutions are-(1) 256, 0, 97, 404 (2) 404, 0, 97, 256

(1) 250, 0, 77 , 101	(2) 101, 0, $77, 230$
(3) 256, 97, 0, 404	(4) 404, 97, 256, 0

Q.32 On heating a mixture of Cu₂O and Cu₂S, we get :

(1) $Cu + SO_2$	(2) $Cu + SO_3$
(3) CuO + CuS	$(4) \operatorname{Cu}_2 \operatorname{SO}_3$

- **Q.33** For a gas reaction at T(K) the rate is given $by - \frac{dp_A}{dt} = k' p_A^2 \text{ atm/hr. If the rate equation}$ is expressed as $: -r_A = -\frac{1}{V} \frac{dn_A}{dt} = kC_A^2$, mol/(litre-hr), the rate constant k is given by-(1) k = k' (2) k = k' RT (3) k = k'/RT (4) k = k' (RT)^2 where R = ideal gas law constant, cal/g mol. K
- Q.34Effective atomic number of $Co(CO)_4$ is 35,
hence it is less stable. It attains stability by -
(1) Oxidation of Co (2) Reduction of Co
(3) Dimerization (4) Both (2) and (3)
- **Q.35** Two solutions (A) containing $\text{FeCl}_{3(aq.)}$ and (B) containing $K_4[\text{Fe}(\text{CN})_6]$ are separated by semi permeable membrane as shown below -

(A)	(B)	
FeCl ₃	K ₄ [Fe(CN) ₆]	
5 SPM		

If $FeCl_3$ on reaction with $K_4[Fe(CN)_6]$ produces blue colour of $Fe_4[Fe(CN)_6]$, the blue colour will be noticed in -

- (1) (A)
- (2) (B)
- (3) In both (A) and (B)
- (4) Neither in (A) nor in (B)
- **Q.36** The overall cell reaction of Daniell cell is : $Zn(s) + Cu^{2+} \Longrightarrow Zn^{2+} + Cu(s); E^{\circ} = +1.10 \text{ volt}$

$$Q = \frac{[Zn^{2+}]}{[Cu^{2+}]}$$

When $log_{10}Q$ is plotted on X-axis and E_{cell} on Y-axis, then which of the following will correctly represent the variation ?



Q.37 Half-life of reaction is halved as the initial concentration of the reactant is doubled. The order of reaction is -

(1) 0.5 (2) 1 (3) 2 (4) 0

- Q.38 CrO_4^{2-} (yellow)-changes to $Cr_2O_7^{2-}$ (orange) in pH = x and vice-versa in pH = y, x and y can be-(1) 6, 5 (2) 6, 8 (3) 8, 9 (4) 7, 7
- **Q.39** Which of the following compounds is optically inactive ?



Q.40 Formaldehyde forms an addition product with CH₃MgI which on hydrolysis gives :
(1) ethyl iodide (2) ethyl alcohol
(3) methyl alcohol (4) methyl iodide

Q.41
$$\longrightarrow \xrightarrow{O_3/H_2O/Zn} A \xrightarrow{\Theta} \xrightarrow{OH} B;$$

In the given sequence 'B' is :-



- **Q.42** In which reaction product formation takes place by Saytzeff rule ?
 - $\begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & &$
- Q.43 In which reaction product is wrong (1) CH_3 -CH-CH-CH₃ $\xrightarrow{(CH_3)_3CONa}$ \downarrow CH_3 Br

$$CH_{3}-C=CH-CH_{3}$$

$$|$$

$$CH_{3}$$

$$(2) CH_{3}-Cl + (CH_{3})_{3}CONa \rightarrow CH_{3}-O-C(CH_{3})_{3}$$

$$(3) (CH_3)_2C - C(CH_3)_2 \xrightarrow{H^{\oplus}} (CH_3) \xrightarrow{-C} - C(CH_3)_3$$

$$\bigcup_{OH OH} OH OH OH$$

$$(4) \bigcirc \xrightarrow{Q_{n-Hg}} \bigcirc \xrightarrow{Z_{n-Hg}} \bigcirc$$

Q.44
$$CH_3$$
- $C-CH_3 \xrightarrow{I_2} (A) \xrightarrow{Ag \text{ powder}} (B) \xrightarrow{H_2O}_{Hg^{+2}}$ (C).
O
Product A B & C are -

- (1) Iodoform, Acetylene & Acetaldehyde
- (2) Triiodomethane, Ethyne & Acetone
- (3) Iodoform, Ethene & Ethylene glycol
- (4) Ethene, iodoform & Ethylhydrogen sulphate
- Q.45 When of the following gives do not aldol reaction

(1)
$$CH_3 - C - H$$

O
(2) $\bigcirc - CH_2 - C - H$
O
(3) $CH_3 - C - CH_3$
O
(4) $H - C - H$
O

Q.47 Which of the following acid on heating do not form anhydride(1) Succinic acid(2) pthallic acid

(3) Maleic acid (4) Malonic acid

- Q.48 Which of the following compounds will react with Br₂ and aqueous KOH to give a primary amine, RNH₂ ?
 - (1) $\operatorname{RCONHCH}_3$ (2) RCOONH_4
 - (3) RCONH_2 (4) $\operatorname{RCONHOH}$

Q.49 Which is not true about acetophenone ?

- (1) Reacts to form 2, 4-dinitrophenyl hydrazine
- (2) Reacts with Tollen's reagent to form silver mirror
- (3) Reacts with I_2 /NaOH to form iodoform
- (4) On oxidation with alkaline KMnO₄ followed by hydrolysis gives benzoic acid



SECTION-C MATHEMATICS]

- Q.51 Johan has x children by his first wife. Mary has (x + 1) children by his first husband .They marry and have children of their own. The whole family has 24 children. Assuming that two children of the same parents do not fight . The maximum no. of fights are -
 - (1) 198 (2) 202
 - (3) 191 (4) 237
- **Q.52** The plane passing through the intersection of planes $\vec{r} . (2\hat{i} - 3\hat{j} + 4\hat{k}) = 1$ and $\vec{r} . (\hat{i} - \hat{j}) + 4 = 0$ and perpendicular to $\vec{r} . (2\hat{i} - \hat{j} + \hat{k}) = -8$, is

(1) $\vec{r} \cdot (12\hat{i} + 5\hat{j} - 2\hat{k}) = 47$

- (2) $\vec{r}.(-5\hat{i}+2\hat{j}+12\hat{k}) = 47$
- (2) 1.(31 + 2j + 12k) = 4
- (3) $\vec{r}.(-2\hat{i}+5\hat{j}+12\hat{k}) = 47$
- (4) $\vec{r}.(12\hat{i}-\hat{j}-2\hat{k}) = 47$

Q.53 $f: R - \{-a\} \rightarrow R - \{3\}, f(x) = \frac{3x-2}{x+a}$. If the reflection of y = f(x) in the line y = x is f(x) it self, then 'a' is equal to (1) 3 (2) - 3 (3) 3/2 (4) 2/3 Q.54 $\int \frac{e^{\sqrt{x}}}{\sqrt{x}} (x + \sqrt{x}) dx \text{ is equal to}$ (1) $2e^{\sqrt{x}} [x - \sqrt{x} + 1] + C$ (2) $e^{\sqrt{x}} [x - 2\sqrt{x} + 1] + C$ (3) $e^{\sqrt{x}} (x + \sqrt{x}) + C$ (4) $e^{\sqrt{x}} (x + \sqrt{x} + 1) + C$

Q.55 If
$$f''(x) = -f(x)$$
 and $g(x) = f'(x)$ and
 $F(x) = \left(f\left(\frac{x}{2}\right)\right)^2 + \left(g\left(\frac{x}{2}\right)\right)^2$ and given that
 $F(5) = 5$, then $F(10)$ is equal to -
(1) 5 (2) 10 (3) 0 (4) 15

Q.56 If $f_n(x) = (n^x + n^{-x})^2$, $g_n(x) = (n^x - n^{-x})^2$, then $\begin{vmatrix} f_2(x) & g_2(x) & 1 \\ f_3(y) & g_3(y) & 1 \\ f_5(z) & g_5(z) & 1 \end{vmatrix}$ is -(1) equal to zero (2) independent of x, y, z (3) $2^x 3^y 5^z$ (4) $\frac{1}{2^x 3^y 5^z}$

Q.57 Let A be an n order square matrix and B be its adjoint, then $|AB + KI_n|$, where K is a scalar quantity, is (1) $(|A| + K)^{n-2}$ (2) $(|A| + K)^n$ (3) $(|A| + K)^{n-1}$ (4) $(|A| + K)^{n-3}$

Q.58 Let $g(x) = 7x^2 e^{-x^2} \forall x \in R$, then g(x) does not have -

- (1) local maxima at x = 1
- (2) local maxima at x = 0
- (3) local maxima at x = -1
- (4) two local maxima & one local minima
- Q.59 The solution of the differential equation $x \frac{dy}{dx} = y(\log y - \log x + 1)$ is -(1) $y = xe^{cx}$ (2) $y + xe^{cx} = 0$ (3) $y + e^{x} = 0$ (4) $y = 2xe^{cx^{2}}$
- **Q.60** A cube of ice melts without its changing shape at the uniform rate of $4 \text{ cm}^3/\text{min}$. The rate of change of the surface area of the cube, in cm²/min, when the volume of the cube is 125 cm^3 , is -

$$(1) -4 \qquad (2) -16/5 \quad (3) -16/6 \quad (4) -8/15$$

Q.61 If
$$\int \frac{\cos^4 x \, dx}{\sin^3 x (\sin^5 x + \cos^5 x)^{3/5}}$$

= $-\frac{1}{2} (1 + \cot^A x)^B + c$, then AB, is
(1) 5 (2) 2/5 (3) 2 (4) 1

Q.62
$$\ell = \lim_{x \to 0^+} \left[\frac{x}{\sin^{-1} x} \right]; \ m = \lim_{x \to 0^+} \left[\frac{x}{\tan^{-1} x} \right];$$

 $n = \lim_{x \to 0^-} \left[\frac{2^x - 1}{x} \right] \text{ (where } [\cdot] \text{ denotes greatest}$
integer function) mark incorrect option-

(1) $\ell^2 + n^2 = 0$ (2) $\ell + m + n = 1$

(3) $\ell = n$ (4) None of these

- **Q.63** Range of the function $f(x) = \cos^{-1} x + \csc^{-1} x$ is -(1) $[0, \pi]$ (2) $[-\pi/2, \pi/2] - \{0\}$
 - (3) $\{-\pi/2, \pi/2\}$ (4) $\{\pi/2\}$
- Q.64 The foot of perpendicular from P(1, 0, 2) to the line $\frac{x+1}{3} = \frac{y-2}{-2} = \frac{z+1}{-1}$ is the point -(1) (1, 2, -1) (2) $\left(\frac{1}{2}, 1, -\frac{3}{2}\right)$ (3) (-4, 4, 0) (4) (2, 0, -2)
- Q.65 f is a continuous function in [a, b]; g is a continuous function in [b, c]. A function h(x) is defined as $h(x) = \begin{cases} f(x); & x \in [a,b) \\ g(x); & x \in (b,c] \end{cases}, \text{ if } f(b) = g(b), \text{ then}$ (1) h(x) has a removable discontinuity at x = b (2) h(x) may or may not be continuous in [a, c] (3) h(b⁺) = g(b⁻) and h(b⁻) = f(b⁺) (4) None of these

Q.66	If $y = \frac{x}{x+5}$, then $\frac{dx}{dy}$	equals -
	(1) 5 $(1 - y)^{-2}$	(2) 5 $(1 + y)^{-2}$
	$(3) (1 - y)^{-2}$	(4) None of these

- **Q.67** number of which The ways in 8 distinguishable apples can be distributed among 3 boys such that every boy should get atleast 1 apple and atmost 4 apples is $k^{-7}P_3$, where k has the value equal to (1) 14(2) 66(3) 44 (4) 22
- Q.68 On a Saturday night, 20% of all drivers in the USA are under the influence of alcohol. The probability that a driver under the influence of alcohol will have an accident is 0.001. The probability that a sober driver will have an accident is 0.0001. If a car on a Saturday night smashed into a tree, then the probability that the driver was under the influence of alcohol, is

(1)
$$\frac{3}{7}$$
 (2) $\frac{4}{7}$ (3) $\frac{5}{7}$ (4) $\frac{6}{7}$

Q.69 If $\int \frac{x - \sin x \cos x}{x^2 \cos^2 x} dx = f(x) + c$ then $\lim_{x \to 0} f(x) \text{ equals}$ (1) 1 (2) $\sqrt{2}$ (3) $\frac{1}{\sqrt{2}}$ (4) $\sqrt{3}$

Q.70 The system of equations x - y + 3z = 4 x + z = 2 x + y - z = 0 has
(1) a unique solution
(2) many finite solutions
(3) infinite solutions
(4) no solution **Q.71** Equation of the plane through the mid-point of the join of A(4, 5, -10) and B(-1, 2, 1) and perpendicular to AB is -(1) $\vec{r} \cdot (5\hat{i} + 3\hat{j} - 11\hat{k}) + \frac{135}{2} = 0$

(2)
$$\vec{r} \cdot (5\hat{i} + 3\hat{j} - 11\hat{k}) = \frac{135}{2}$$

(3) $\vec{r} \cdot \left(\frac{3}{2}\hat{i} + \frac{7}{2}\hat{j} - \frac{9}{2}\hat{k}\right) = 5\hat{i} + 3\hat{j} - 11\hat{k}$

Q.72 I =
$$\int_{0}^{2\pi} \frac{1}{1 + e^{\sin x}} dx$$
 is equal to -
(1) π (2) 2π (3) $\frac{\pi}{2}$ (4) None

- Q.73 The slope at any point of a curve y = f(x) is given by $\frac{dy}{dx} = 3x^2$ and it passes through (-1, 1). The equation of the curve is (1) $y = x^3 + 2$ (2) $y = -x^3 - 2$ (3) $y = 3x^3 + 4$ (4) $y = -x^3 + 2$
- **Q.74** The area enclosed between the curves y = xand $y = 2x - x^2$ is -
 - (1) $\frac{1}{2}$ (2) $\frac{1}{6}$ (3) $\frac{1}{3}$ (4) $\frac{1}{4}$
- Q.75 A fair die is tossed until a number greater than 4 appears. The probability that an even number of tosses shall be required, is (1) 1/2
 (2) 2/5
 (3) 3/5
 (4) 2/3



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