

Competishun

52/6, Opposite Metro Mas Hospital, Shipra Path, Mansarovar

Date: 25/11/2024

Time: 3 hours

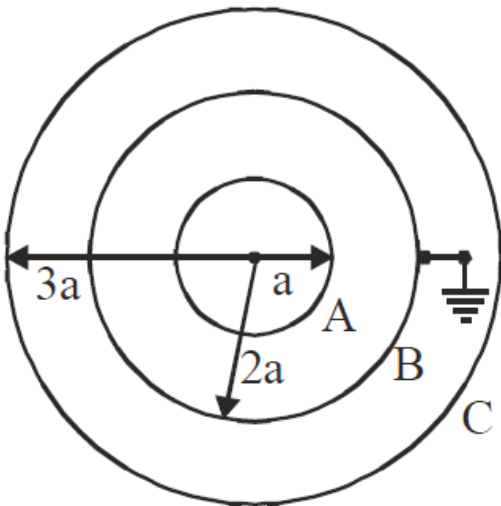
Max. Marks: 300

UTS-1_MT-4 (24-25)

Physics

Single Choice Question

- Q1** Figure shows a system of three concentric metal shells A, B and C with radii a , $2a$ and $3a$ respectively. Shell B is earthed and shell C is given a charge Q . Now if shell C is connected to shell A, then the final charge on the shell B, is equal to :



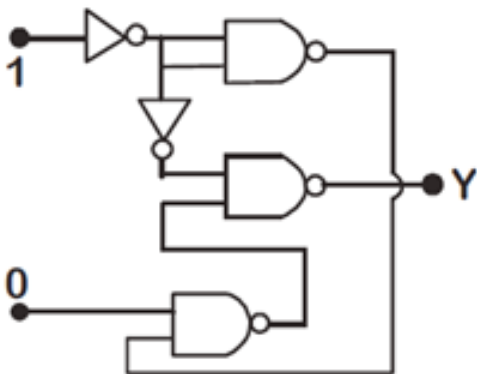
- a) $-\frac{4Q}{13}$ b) $-\frac{8Q}{11}$ c) $-\frac{5Q}{3}$ d) $-\frac{3Q}{7}$

- Q2** A parallel plate capacitor has plates of area A separated by distance ' d ' between them. It is filled with a dielectric which has a dielectric constant that varies as $k(x) = K(1 + \alpha x)$ where ' x ' is the distance measured from one of the plates. If $(\alpha d) \ll 1$, the total capacitance of the system is best given by the expression



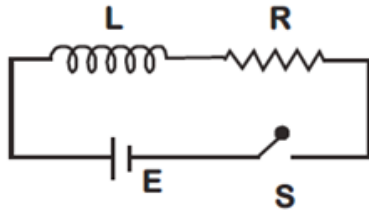
- a) $\frac{AK\epsilon_0}{d}(1 + \alpha d)$ b) $\frac{A\epsilon_0 K}{d}(1 + \frac{\alpha^2 d^2}{2})$ c) $\frac{AK\epsilon_0}{d}(1 + \frac{\alpha d}{2})$
 d) $\frac{A\epsilon_0 K}{d} \left(1 + \left(\frac{\alpha d}{2}\right)^2\right)$
- Q3** The magnetic field of a plane electromagnetic wave is given by $\vec{B} = 2 \times 10^{-8} \sin(0.5 \times 10^3 x + 1.5 \times 10^{11} t) \hat{j} T$. The amplitude of the electric field would be
- a) 6 Vm^{-1} along x-axis b) 3 Vm^{-1} along x-axis c) 6 Vm^{-1} along z-axis
 d) $2 \times 10^{-8} \text{ Vm}^{-1}$ along z-axis
- Q4** Visible light of wavelength $6000 \times 10^{-8} \text{ cm}$ falls normally on a single slit and produces a diffraction pattern. It is found that the second diffraction minimum is at 60° from the central maximum. If the first minimum is produced at θ_1 , then θ_1 is close to
- a) 25° b) 30° c) 35° d) 45°

- Q5** In the given circuit, value of Y is



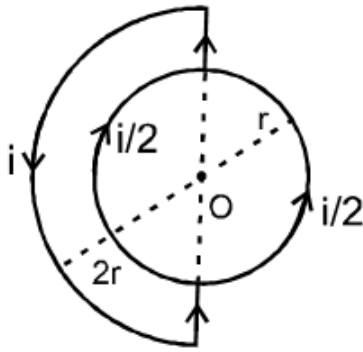
- a) Toggles between 0 and 1 b) 0 c) 1 d) Will not execute
- Q6** Consider a mixture of n moles of helium gas and $2n$ moles of oxygen gas (molecules taken to be rigid) as an ideal gas. Its C_p/C_v value will be
- a) $40/27$ b) $19/13$ c) $67/45$ d) $23/15$

- Q7** As shown in the figure, a battery of emf E is connected to an inductor L and resistance R in series. The switch is closed at $t = 0$. The total charge that flows from the battery, between $t = 0$ and $t = t_C$ (t_C is the time constant of the circuit) is :

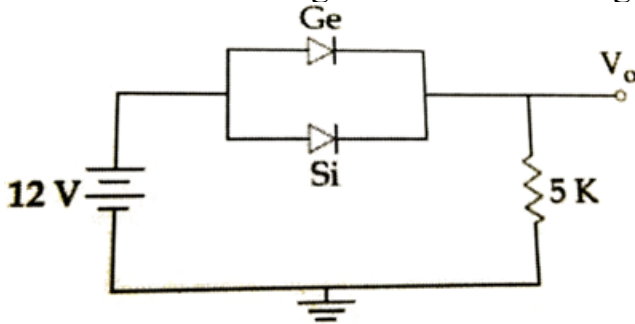


- a) $\frac{EL}{R^2}$ b) $\frac{EL}{eL^2}$ c) $\frac{EL}{R^2} \left(1 - \frac{1}{e}\right)$ d) $\frac{EL}{eR^2}$
- Q8** Velocity (in m/s) of a particle moving in a straight line is given by $V = (t^2 - 2t + 1)$:
- | List-I | List-II |
|--|---------|
| (P) Velocity (in m/s) of particle at $t = 3$ sec is | (1) 1 |
| (Q) Acceleration (in m/s^2) of particle at $t = 2$ is | (2) 2 |
| (R) Time when particle is at rest is | (3) 3 |
| (S) Magnitude of average acceleration of particle in first one second is | (4) 4 |
- a) $P \rightarrow 3; Q \rightarrow 2; R \rightarrow 4; S \rightarrow 1$ b) $P \rightarrow 4; Q \rightarrow 3; R \rightarrow 2; S \rightarrow 1$ c) $P \rightarrow 4; Q \rightarrow 2; R \rightarrow 1; S \rightarrow 1$
d) $P \rightarrow 1; Q \rightarrow 4; R \rightarrow 3; S \rightarrow 2$
- Q9** A thin circular disc of radius R is uniformly charged with density $\sigma > 0$ per unit area. The disc rotates about its axis with a uniform angular speed ω . The magnetic moment of the disc is
- a) $\pi R^4 \sigma \omega$ b) $\frac{\pi R^4}{2} \sigma \omega$ c) $\frac{\pi R^4}{4} \sigma \omega$ d) $2\pi R^4 \sigma \omega$
- Q10** In a series LCR resonance circuit, if we change the resistance only, from a lower to higher value
- a) The quality factor and the resonance frequency will remain constant
b) The resonance frequency will increase
c) The bandwidth of resonance circuit will increase
d) The quality factor will increase

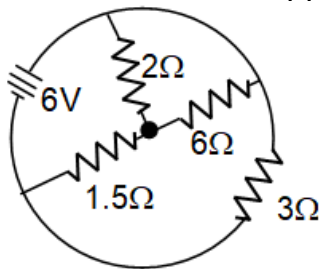
- Q11** The current flowing in the loop is shown in figure. Then the magnetic field at point O (centre) is :



- a) $\frac{3\mu_0 i}{8r}$ b) $\frac{5\mu_0 i}{8r}$ c) $\frac{\mu_0 i}{8r}$ d) None of these
- Q12** Ge and Si diodes start conducting at 0.3 V and 0.7 V respectively. In the following figure if Ge diode connection are reversed, the value of V_0 changes by: (assume that the Ge diode has large breakdown voltage)

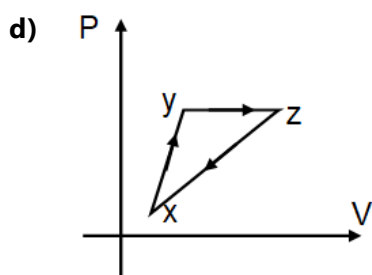
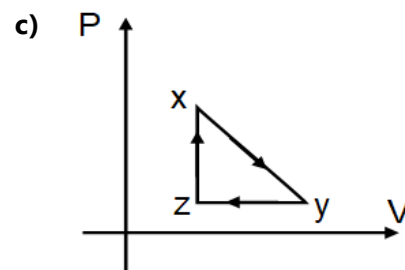
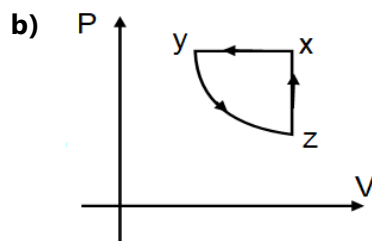
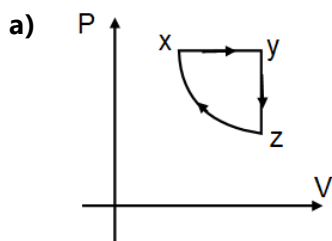
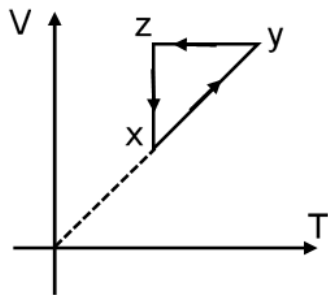


- a) 0.8 V b) 0.6 V c) 0.2 V d) 0.4 V
- Q13** The total current supplied to the circuit by the battery is -



- a) 1A b) 2A c) 4A d) 6A
- Q14** In a Young's double slit experiment, the slits are placed 0.320 mm apart. Light of wavelength $\lambda = 500$ nm is incident on the slits. The total number of bright fringes that are observed in the angular range $-30^\circ \leq \theta \leq 30^\circ$ is:
- a) 640 b) 320 c) 321 d) 641

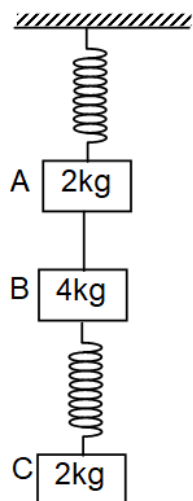
Q15 Choose the correct P-V graph of ideal gas for given V-T graph.



Q16 A screw gauge advances by 3mm in 6 rotations. There are 50 divisions on circular scale. Find least count of screw gauge?

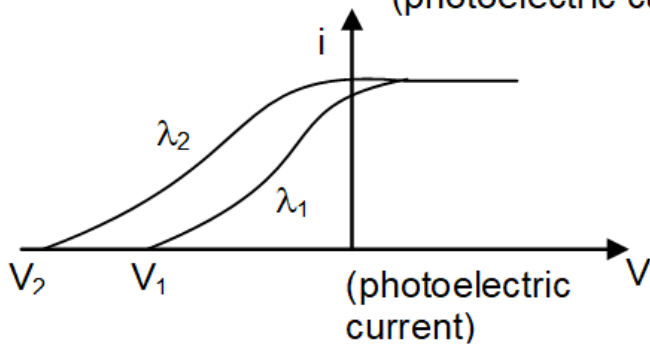
- a) 0.002 cm b) 0.001 cm c) 0.01 cm d) 0.02 cm

Q17 Three blocks A, B and C are in equilibrium. If string is cut between block A and B then calculate acceleration of block 'B' just after cutting the string.



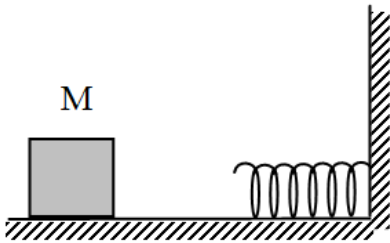
- a) 0 b) 15 m/s^2 upward c) 15 m/s^2 downward d) 30 m/s^2 upward

Q18 In the following diagram if $V_2 > V_1$ then -
(photoelectric current)



- a) $\lambda_1 = \sqrt{\lambda_2}$ b) $\lambda_1 < \lambda_2$ c) $\lambda_1 = \lambda_2$ d) $\lambda_1 > \lambda_2$

Q19 The block of mass M moving on the frictionless horizontal surface collides with the spring of spring constant K and compresses it by length L . The maximum momentum of the block after collision is -



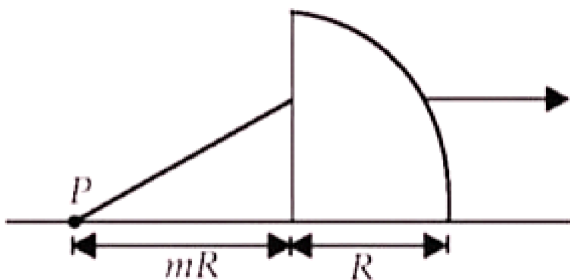
- a) \sqrt{MKL} b) $\frac{KL^2}{2M}$ c) zero d) $\frac{ML^2}{K}$

Q20 A force F is needed to break a copper wire having radius R . The force needed to break a copper wire of the same length and radius $2R$ will be -

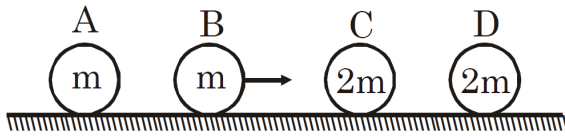
- a) $\frac{F}{2}$ b) $2F$ c) $4F$ d) $\frac{F}{4}$

Numerical

Q21 A quarter cylinder of radius R and refractive index 1.5 is placed on a table. A point Object P is kept at a distance mR from it. Find the value of $100 \times m$ for which a ray from P will emerge parallel to the table as shown in figure

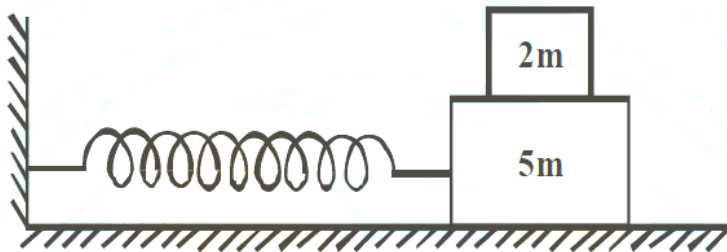


- Q22** Four balls A, B, C and D are placed on a smooth horizontal surface. Ball B collides with ball C with an initial velocity u as shown in figure. If all collisions are elastic, find the total number of collisions between the balls.

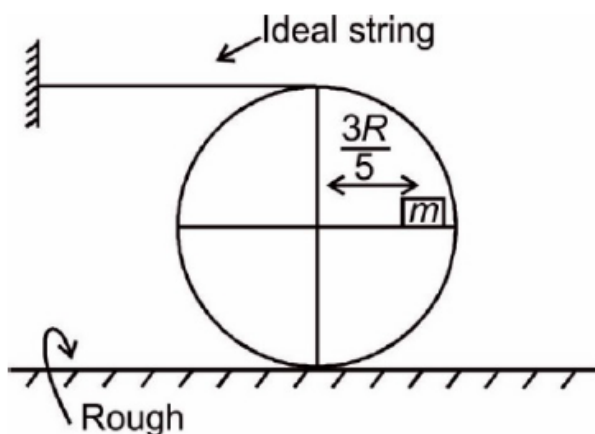


- Q23** In Bohr's model, if B and ' a ' denote the magnetic field at centre and centripetal acceleration, where electron is in n^{th} orbit, then it is found that $\frac{a}{B} \propto \frac{n^\alpha}{z^\beta}$, where z = atomic number, find value of $(\alpha + \beta)$.

- Q24** There is no friction between surface and block. If system is slightly displaced and released, it executes S.H.M., spring constant of the spring is K and co-efficient of friction between the blocks is μ . Maximum amplitude of oscillation so that upper block does not slip on the lower block is $\alpha \frac{\mu mg}{K}$ then α is



- Q25** Consider a ring of mass m and radius R with four light spokes. A point mass m is placed on one horizontal spoke. (see the figure)



If the shown system is at rest then minimum value of coefficient of friction is given by $\frac{3}{n}$. Find the value of n .

Chemistry

Single Choice Question

- Q26** 5.1 g NH_4SH is introduced in 3.0 L evacuated flask at 327°C . 30% of the solid NH_4SH decomposed to NH_3 and H_2S as gases. The K_p of the reaction at 327°C is ($R = 0.082 \text{ L atm mol}^{-1}\text{K}^{-1}$, Molar mass of S = 32 g mol^{-1} , molar mass of N = 14 g mol^{-1})
 a) $4.9 \times 10^{-3} \text{ atm}^2$ b) 0.242 atm^2 c) $1 \times 10^{-4} \text{ atm}^2$ d) $0.242 \times 10^{-4} \text{ atm}^2$
- Q27** Two pi and half sigma bonds are present in
 a) O_2^+ b) O_2 c) N_2^+ d) N_2
- Q28** When a certain metal was irradiated with light of frequency $3.2 \times 10^{16} \text{ Hz}$, photo electrons emitted had twice the kinetic energy as did photoelectrons emitted when same metal was irradiated with light at frequency $2.0 \times 10^{16} \text{ Hz}$. The work function of metal will be-
 a) $4.2 \times 10^{20} \text{ J}$ b) $3.1 \times 10^{19} \text{ J}$ c) $5.3 \times 10^{-18} \text{ J}$ d) $2.2 \times 10^{20} \text{ J}$
- Q29** Which is a true statement?
 a) Larger is the value of ionisation energy easier is the formation of cation.
 b) Larger is the value of electron affinity easier is the formation of anion.
 c) Larger is the value of ionisation energy as well as electron affinity the smaller is the electronegativity of atom.
 d) Larger is the Z_{eff} larger is the size of atom
- Q30** Select the incorrect statement ?
 a) In graphite, carbon is sp^2 hybridised while in diamond, is carbon is sp^3 hybridised
 b) CO is toxic because it forms a complex with haemoglobin in the blood
 c) Graphite is anisotropic in nature with respect to conductivity
 d) COCl_2 is called phosphine gas
- Q31** Select the correct order for the given properties—
 (I) Thermal Stability : $\text{BaSO}_4 > \text{SrSO}_4 > \text{CaSO}_4 > \text{MgSO}_4$
 (II) Basic Nature : $\text{ZnO} > \text{BeO} > \text{MgO} > \text{CaO}$
 (III) Solubility in water : $\text{LiOH} > \text{NaOH} > \text{KOH} > \text{RbOH}$
 (IV) Melting point : $\text{NaCl} > \text{KCl} > \text{RbCl} > \text{LiCl}$
 a) I, IV b) I, II and IV c) II, III d) All are correct

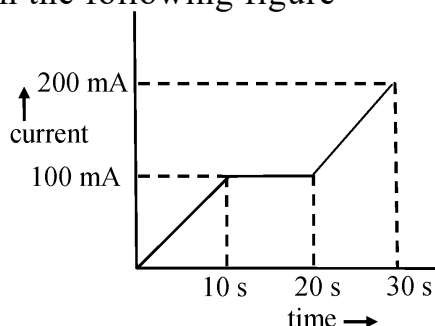
Q32 Given below are two statements:

Statements-I : In Hofmann degradation reaction, the migration of only an alkyl group takes place from carbonyl carbon of the amide to the nitrogen atom.

Statement-II : The group is migrated in Hofmann degradation reaction to electron deficient atom. In the light of the above statement, choose the most appropriate answer from the options given below:

- a) Both Statement-I and Statement-II are correct
- b) Both Statement-I and Statement-II are incorrect
- c) Statement-I is correct but Statement-II is incorrect
- d) Statement-I is incorrect but Statement-II is correct

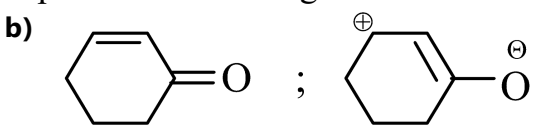
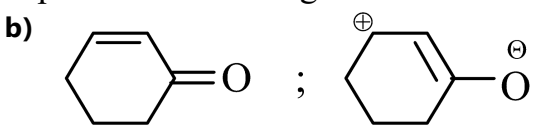
Q33 In a Cu-voltameter, mass deposited in 30s is m gm. If the time-current graph is shown in the following figure



What is the electrochemical equivalent of Cu?

- a) $m/2$
- b) $m/3$
- c) $m/4$
- d) $\frac{m}{63.5}$

Q34 Which of the following pairs of structures do not represent resonating structures ?

- a) $\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{CH}_3$; $\text{CH}_3 - \overset{\text{OH}}{\text{C}} = \text{CH}_2$
- b)  ; 
- c) $\text{CH}_3 - \overset{\oplus\text{OH}}{\parallel} \text{C} - \text{CH}_3$; $\text{CH}_3 - \overset{\text{OH}}{\text{C}} - \text{CH}_3$
- d) $\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{OH}$; $\text{CH}_3 - \overset{\oplus}{\text{C}} = \text{OH}$

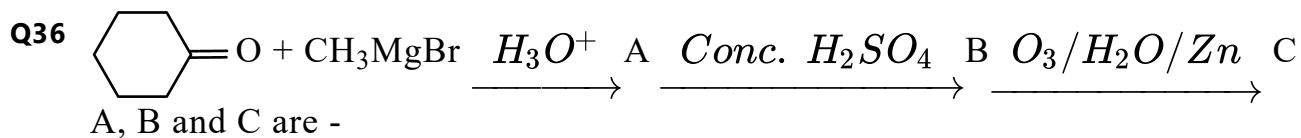
Q35 Given below are two statements : one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Cis form of alkene is found to be more polar than the trans form

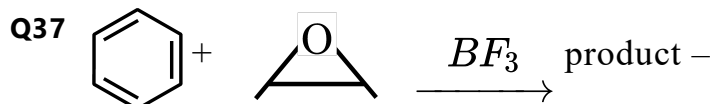
Reason (R): Dipole moment of trans isomer of 2-butene is zero.

In the light of the above statements, choose the correct answer from the options given below :

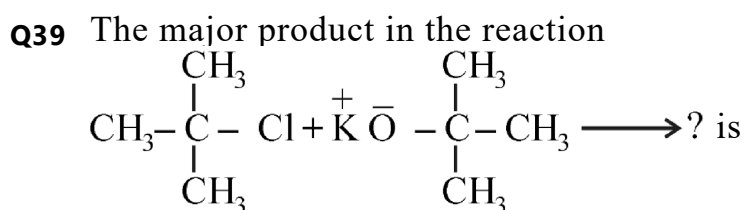
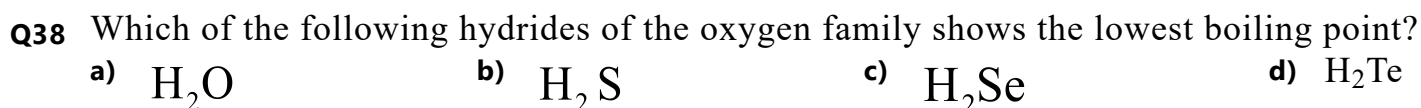
- a) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- b) (A) is true but (R) is false
- c) Both (A) and (R) are true and (R) is the correct explanation of (A)
- d) (A) is false but (R) is true



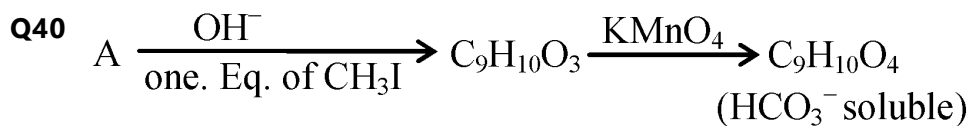
- a) A \rightarrow CC1(O)CCCCC1 B \rightarrow CC1=CCCCC1 C \rightarrow CC1=CCCCC1C=O
- b) A \rightarrow CC1(O)CCCCC1 B \rightarrow C=C1CCCCC1 C \rightarrow O=C1CCCCC1, HCHO
- c) A \rightarrow CC1(O)CCCCC1 B \rightarrow CC1=CCCCC1 C \rightarrow CC1=CCCCC1C=O
- d) A \rightarrow CC1(O)CCCCC1 B \rightarrow CC1=CCCCC1 C \rightarrow CC1=CCCCC1C(=O)O



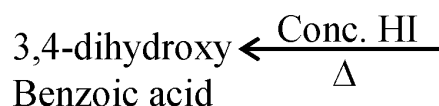
- a) c1ccccc1CC1CO1 b) CC(C)(O)C(O)Cc1ccccc1 c) CC(C)(O)C(O)c1ccccc1
- d) none of the above



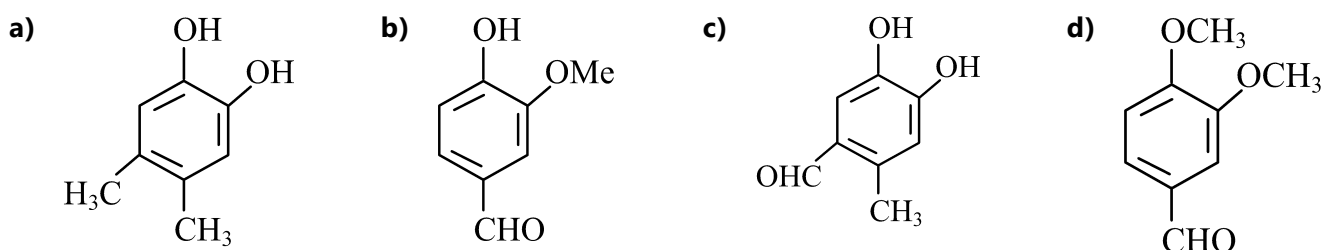
- a) t-Butyl ethyl ether b) 2,2-Dimethyl butane c) 2-Methyl pent-1-ene
 d) 2-Methyl prop-1-ene



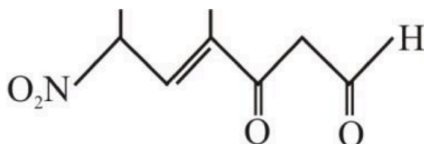
(It gives intense colour with FeCl_3 and Positive Tollen's test)



Starting substrate 'A' is -



Q41 The correct IUPAC name of the following compound is :



- a) 4-methyl-2-nitro-5-oxohept-3-enal b) 4-methyl-5-oxo-2-nitrohept-3-enal
c) 4-methyl-6-nitro-3-oxohept-4-enal d) 6-formyl-4-methyl-2-nitrohex-3-enal

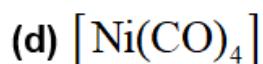
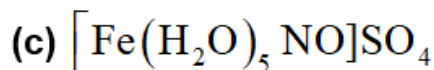
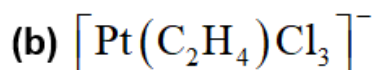
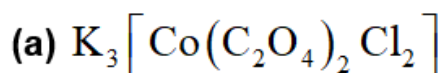
Q42 In which of the following hexose C-4 epimer of D-glucose is

- a) D-Altrose b) D-mannose c) D-Galactose d) D-fructose

Q43 Match the complexes given in column I with the oxidation states of central metal atoms given in column II and mark the appropriate choice.

Column I

(Complex)



Column II

(Oxidation state of central atom)

(i) 0

(ii) +1

(iii) +3

(iv) +2

a) (a) (ii), (B) (i), (C) (iv), (D) (iii)

c) (a) (iii), (B) (iv), (C) (ii), (D) (i)

b) (a) (iv), (B) (ii), (C) (i), (D) (iii)

d) (a) (i), (B) (ii), (C) (iii), (D) (iv)

Q44 The IUPAC name of the complex $[\text{Pt}(\text{NH}_3)_2 \text{Cl}(\text{NH}_2\text{CH}_3)]\text{Cl}$ is :

- a) Diamminechlorido(methanamine)platinum (II) chloride
- b) Diammine(methanamine)chloridoplatinum (II) Chloride
- c) Bisammine(methanamine)chloridoplatinum (II) chloride
- d) Diamminechlorido(aminomethane)platinum (IV) chloride

Q45 Arrange the following elements in the increasing order of number of unpaired electrons in it.

- (A) **Sc** (B) **Cr** (C) **V** (D) **Ti** (E) Mn

Choose the correct answer from the options given below:

- a) $(C) < (E) < (B) < (A) < (D)$
- b) $(B) < (C) < (D) < (E) < (A)$
- c) $(A) < (D) < (C) < (B) < (E)$
- d) $(A) < (D) < (C) < (E) < (B)$

Numerical

Q46 The following results were obtained during kinetic studies of the reaction ; $2 \text{A} + \text{B} \longrightarrow \text{Products}$

Experiment	[A] (in mol L^{-1})	[B] (in mol L^{-1})	Initial Rate of reaction (in $\text{mol L}^{-1} \text{min}^{-1}$)
I	0.10	0.20	6.93×10^{-3}
II	0.10	0.25	6.93×10^{-3}
III	0.20	0.30	1.386×10^{-2}

The time (in minutes) required to consume half of A is

- Q47** 20 ml of 0.1 M H_2SO_4 solution is added to 30 ml of 0.2 M NH_4OH solution. The pH of the resultant mixture is : [pK_b of $\text{NH}_4\text{OH} = 4.7$]
- Q48** A solution of sodium sulfate contains 92 g of Na^+ ions per kilogram of water. The molality of Na^+ ions in that solution in mol kg^{-1} is:
- Q49** A process had $\Delta H = 200 \text{ Jmol}^{-1}$ and $\Delta S = 40 \text{ JK}^{-1} \text{mol}^{-1}$. The minimum temperature (in K) above which the process will be spontaneous.
- Q50** Relative decrease in vapour pressure is 0.4 for a solution containing 1 mole AB in 3 mol H_2O , therefore AB is ionised at the extent of X% then the value of $\frac{X}{20}$ is :

Q58

The value of definite integral $\frac{2^{2010} \int_0^1 t^{1004} (1-t)^{1004} dt}{\int_0^1 t^{1004} (1-t^{2010})^{1004} dt}$ is

- a) 4000 b) 40021 c) 4020 d) 4021

Q59

Consider the function $f(x) = \begin{cases} \frac{g(x)}{x-2}; & x \neq 2 \\ 7; & x = 2 \end{cases}$ where $g(x)$ is polynomial function

such that $g'''(x)$ is identically equal to zero and $g(3) = 9$. If $f(x)$ is continuous at $x = 2$, then $g(x)$ is

- a) $2x^2 + x + 6$ b) $2x^2 - x - 6$ c) $x^2 + 3$ d) $x^2 - x + 7$

Q60

The centre of an ellipse $\frac{x^2}{25} + \frac{y^2}{16} = 1$ is C and PN is any ordinate & A, A' are the end

points of major axis, then the value of $\frac{PN^2}{ANA'N}$ is

- a) 9 b) $\frac{16}{25}$ c) $\frac{25}{16}$ d) 41

Q61 The set of all $a \in \mathbb{R}$ for which the equation $x |x-1| + |x+2| + a = 0$ has exactly one real root is :

- a) $(-6, -3)$ b) $(-\infty, \infty)$ c) $(-6, \infty)$ d) $(-\infty, -3)$

Q62 The area of the region $\{(x, y) : x^2 \leq y \leq |x^2 - 4|, y \geq 1\}$ is

- a) $\frac{3}{4}(4\sqrt{2} - 1)$ b) $\frac{4}{3}(4\sqrt{2} - 1)$ c) $\frac{4}{3}(4\sqrt{2} + 1)$ d) $\frac{3}{4}(4\sqrt{2} + 1)$

Q63

Let $I(x) = \int \frac{x^2 (x \sec^2 x + \tan x)}{(x \tan x + 1)^2} dx$. If $I(0) = 0$ the $I\left(\frac{\pi}{4}\right)$ is equal to

- a) $\log_e \frac{(\pi+4)^2}{16} - \frac{\pi^2}{4(\pi+4)}$ b) $\log_e \frac{(\pi+4)^2}{16} + \frac{\pi^2}{4(\pi+4)}$ c) $\log_e \frac{(\pi+4)^2}{32} - \frac{\pi^2}{4(\pi+4)}$
d) $\log_e \frac{(\pi+4)^2}{32} + \frac{\pi^2}{4(\pi+4)}$

- Q64** Let two non-collinear vectors \vec{a} and \vec{b} inclined at an angle $\frac{2\pi}{3}$ be such that $|\vec{a}| = 3$ and $|\vec{b}| = 4$. A point P moves so that at any time t the position vector \vec{OP} (where O is the origin) is given as $\vec{OP} = (e^t + e^{-t})\vec{a} + (e^t - e^{-t})\vec{b}$. If the least distance of P from origin is $\sqrt{2}\sqrt{a-b}$ where $a, b \in \mathbb{N}$ then find the value of $(a+b)$.
- a) 165 b) 488 c) 485 d) 450
- Q65** If the points with vectors $\alpha\hat{i} + 10\hat{j} + 13\hat{k}$, $6\hat{i} + 11\hat{j} + 11\hat{k}$, $\frac{9}{2}\hat{i} + \beta\hat{j} - 8\hat{k}$ are collinear, then $(19\alpha - 6\beta)^2$ is equal to
- a) 36 b) 16 c) 25 d) 49
- Q66** If $\lim_{x \rightarrow 0} \frac{e^{ax} - \cos(bx) - \frac{cxe^{-cx}}{2}}{1 - \cos(2x)} = 17$, then $5a^2 + b^2$ is equal to ____.
- a) 72 b) 76 c) 68 d) 64
- Q67** Let $R = \{a, b, c, d, e\}$ and $S = \{1, 2, 3, 4\}$. Total number of onto function $f: R \rightarrow S$ such that $f(a) \neq 1$, is equal to ____.
- a) 175 b) 185 c) 172 d) 180
- Q68** If in the expansion of $\left(x^3 - \frac{2}{\sqrt{x}}\right)^n$ a term like x^2 exists and 'n' is a double digit number, then least value of 'n' is -
- a) 10 b) 11 c) 12 d) 13
- Q69** If the system of linear equations $2x - 3y = \gamma + 5$, $\alpha x + 5y = \beta + 1$, where $\alpha, \beta, \gamma \in \mathbb{R}$ has infinitely many solutions, then the value of $|9\alpha + 3\beta + 5\gamma|$ is equal to
- a) 50 b) 52 c) 54 d) 58
- Q70** A running track of 440 ft. is to be laid out enclosing a football field, the shape of which is a rectangle with a semi-circle at each end. If the area of the rectangular portion is to be maximum then the lengths of its sides are -
- a) 110, 70 b) 130, 50 c) 120, 60 d) None

Numerical

- Q71** The number of terms common to the two A.P.'s 3, 7, 11,.....407 and 2, 9, 16,.....709 is
- Q72** If $\left(\frac{1+i}{1-i}\right)^{m/2} = \left(\frac{1+i}{i-1}\right)^{n/3} = 1$, ($m, n \in \mathbb{N}$) Then the greatest common divisor of the least values of m and n is _____.

- Q73** The probability of a man hitting a target is $1/10$. The least number of shots required, so that the probability of his hitting the target at least once is greater than $1/4$, is _____.
- Q74** A circle passing through the point $P(\alpha, \beta)$ in the first quadrant touches the two coordinate axes at the points A and B. The point P is above the line AB. The point Q on the line segment AB is the foot of perpendicular from P on AB. If PQ is equal to 11 units, then the value of $\left(\frac{\alpha\beta-1}{2}\right)$ is _____.
- Q75** Let the solution curve $x = x(y)$, $0 < y < \frac{\pi}{2}$, of the differential equation $(\log_e(\cos y))^2 \cos y dx - (1 + 3x \log_e(\cos y)) \sin y dy = 0$ satisfy $x\left(\frac{\pi}{3}\right) = \frac{1}{2\log_e 2}$. If $x\left(\frac{\pi}{6}\right) = \frac{1}{\log_e m - \log_e n}$, where m and n are co-prime, then mn is equal to _____.

Answer Key

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	B	C	C	A	B	B	D	C	C	C
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	C	D	C	D	A	B	C	D	A	C
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	133	3	1	7	20	B	C	C	B	D
Que.	31	32	33	34	35	36	37	38	39	40
Ans.	A	D	B	A	C	A	C	B	D	B
Que.	41	42	43	44	45	46	47	48	49	50
Ans.	C	C	C	A	D	5	9	4	5	5
Que.	51	52	53	54	55	56	57	58	59	60
Ans.	C	D	D	C	B	C	B	C	B	B
Que.	61	62	63	64	65	66	67	68	69	70
Ans.	B	B	C	B	A	C	D	A	D	A
Que.	71	72	73	74	75					
Ans.	14	4	3	60	12					