

GUJCET-PCE-2025

Test Booklet No.

Test Booklet Set No.

03

This booklet contains 32 pages.

DO NOT open this Test Booklet until you are asked to do so.

Important Instructions :

- 1) The Physics and Chemistry test consists of 80 questions. Each question carries 1 mark. For each correct response, the candidate will get 1 mark. For each incorrect response $\frac{1}{4}$ mark will be deducted. The maximum marks are 80.
- 2) This Test is of 2 hours duration.
- 3) Use **Black Ball Point Pen only** for writing particulars on OMR Answer Sheet and marking answers by darkening the circle '●'.
- 4) Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 5) **On completion of the test, the candidate must handover the Answer Sheet to the Invigilator in the Room / Hall. The candidates are allowed to take away this Test Booklet with them.**
- 6) The Set No. for this Booklet is **03**. Make sure that the Set No. printed on the Answer Sheet is the same as that on this booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- 7) The candidate should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet.
- 8) Do not write your Seat No. anywhere else, except in the specified space in the Test Booklet / Answer Sheet.
- 9) Use of White fluid for correction is not permissible on the Answer Sheet.
- 10) Each candidate must show on demand his / her Admission Card to the Invigilator.
- 11) No candidate, without special permission of the Superintendent or Invigilator, should leave his / her seat.
- 12) Use of Simple (Manual) Calculator is permissible.
- 13) The candidate should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and must sign the Attendance Sheet (Patrak - 01). Cases where a candidate has **not signed the Attendance Sheet (Patrak - 01)** will be deemed not to have handed over the Answer Sheet and will be dealt with as an unfair means case.
- 14) The candidates are governed by all Rules and Regulations of the Board with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of the Board.
- 15) No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 16) The candidates will write the Correct Test Booklet Set No. as given in the Test Booklet / Answer Sheet in the Attendance Sheet. (Patrak - 01)

PHYSICS

- 1) What is the approximate percentage value of maximum voltage to its rms value in LCR AC circuit?
- (A) 22.8% (B) 70.7%
(C) 50% (D) 141.4%
- 2) In which of the following AC circuit, we get the value of power factor 1 at resonance condition?
- (A) LCR series circuit (B) CR series circuit
(C) Only inductor (L) circuit (D) LR series circuit
- 3) The output voltage of a step-down transformer is measured to be 24V, when connected to a 12 watt light bulb. The value of the peak current is _____.
- (A) $2\sqrt{2}$ A (B) $\sqrt{2}$ A
(C) 2 A (D) $\frac{1}{\sqrt{2}}$ A
- 4) _____ are used in medicine to destroy cancer cells.
- (A) Microwaves (B) Gamma rays
(C) Ultraviolet rays (D) Visible rays

(Space for Rough Work)

5) The speed of light in a medium is 200×10^8 cm/s. Refractive index of a medium is _____ ($c = 3 \times 10^8$ m/s).

(A) 2.42

(B) 1.0

(C) 1.5

(D) 1.33

6) What is the power of combination of convex lens and concave lens of equal focal length 25 cm?

(A) Zero

(B) 25D

(C) Infinite

(D) 8D

7) At what angle of incidence should a ray of light incident on a face of an equilateral prism of minimum angle of deviation is 46° ?

(A) 35°

(B) 38°

(C) 40°

(D) 53°

8) If the tube-length (L) of a compound microscope increases, then its magnification _____.

(A) First increases and then decreases (B) Increases

(C) Remains constant

(D) Decreases

(Space for Rough Work)

9) Two waves of same intensity I_0 emitted from two sources having same phase difference (ϕ). Due to superposition of two waves, the intensity of resultant wave is directly proportional to _____ .

(A) $\sin^2\left(\frac{\phi}{2}\right)$

(B) $\sin^2 \phi$

~~(C)~~ $\cos^2\left(\frac{\phi}{2}\right)$

(D) $\cos^2 \phi$

10) For light diverging from a point source,

(A) the intensity at the wavefront does not depend on the distance

(B) the intensity increases in proportion to the distance squared

(C) the wavefront is parabolic

~~(D)~~ the wavefront is spherical

11) In Young's double slit experiment, the slits are separated by 0.54 mm and the screen is placed 1.8m away. The distance between central bright fringe and sixth bright fringe is measured to be 1.2 cm. Determine the wavelength of light used in the experiment.

(A) 5000 Å

~~(B)~~ 600 nm

(C) 8000 nm

(D) 800 nm

(Space for Rough Work)

$$d = 0.54 \times 10^{-3} \text{ m}$$

$$D = 1.8$$

$$\frac{6\lambda D}{d} = 1.2 \times 10^{-2} \text{ m}$$

$$0.06 \times 10^{-5}$$

$$\lambda = \frac{1.2 \times 10^{-2} \times 0.54 \times 10^{-3}}{1.8 \times 6}$$

- 12) The minimum value of electric field required to pulled out electrons from a metal is approximately _____ V/cm.
- (A) 10^9 (B) 10^6
 (C) 10^{10} (D) 10^8
- 13) Monochromatic light of frequency 6×10^{14} Hz is produced by a laser. The power emitted is 4×10^{-3} W. How many photons per second on an average are emitted by the source? [$h = 6.63 \times 10^{-34}$ Js]
- ~~(A)~~ 1×10^{16} Photons per second (B) 5×10^{16} Photons per second
 (C) 3×10^{15} Photons per second (D) 5×10^{15} Photons per second
- 14) What is the de-Broglie wavelength of a bullet of mass 0.033 kg travelling at the speed of 1 km/s? ($h = 6.6 \times 10^{-34}$ Js)
- (A) 3×10^{-25} m ~~(B)~~ 2×10^{-35} m
 (C) 1.1×10^{-32} m (D) 1.7×10^{-35} m
- 15) According to Bohr's model, the orbital angular momentum of electrons in third excited state is _____ [$h = 6.63 \times 10^{-34}$ Js]
- (A) 4.2×10^{-34} kg m²s⁻¹ (B) 12.350×10^{-34} kg m²s⁻¹
 (C) 1.625×10^{-26} erg-s (D) 6.63×10^{-34} Js
- 16) 13.6 eV energy is required to separate a hydrogen atom into proton and an electron. If the orbital radius of an electron in hydrogen atom is 5.3×10^{-11} m, then velocity of electron is _____.
- (A) 6.25×10^7 ms⁻¹ (B) 1.36×10^5 ms⁻¹
 (C) 2.4×10^8 ms⁻¹ (D) 2.2×10^6 ms⁻¹

(Space for Rough Work)

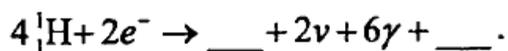
17) The ground state energy of hydrogen atom is -13.6 eV . The potential and kinetic energies of the electron in this state _____.

- (A) $-13.6 \text{ eV}, -27.2 \text{ eV}$ (B) $-27.2 \text{ eV}, -13.6 \text{ eV}$
(C) $-27.2 \text{ eV}, +13.6 \text{ eV}$ (D) $-13.6 \text{ eV}, +27.2 \text{ eV}$

18) Calculate the height of the potential barrier for a head on collision of two deuterons. (Radius of deuteron is 2 fm).

- (A) $7.2 \times 10^{-19} \text{ J}$ (B) $7.2 \times 10^{-14} \text{ J}$
(C) $3.6 \times 10^{-19} \text{ J}$ ~~(D) $5.76 \times 10^{-14} \text{ J}$~~

19) Choose correct option to complete the net effect of fusion reaction occurs in the Sun.



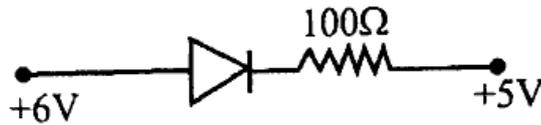
- (A) ${}^3_2\text{He}, 5.49 \text{ MeV}$ ~~(B) ${}^4_2\text{He}, 26.7 \text{ MeV}$~~
(C) ${}^4_2\text{He}, 22.86 \text{ MeV}$ (D) ${}^3_2\text{He}, 0.42 \text{ MeV}$

20) _____ pair is called isotones.

- (A) ${}^{198}_{80}\text{Hg}, {}^{197}_{79}\text{Au}$ (B) ${}^3_1\text{H}, {}^3_2\text{He}$
(C) ${}^{214}_{82}\text{Pb}, {}^{214}_{83}\text{Bi}$ (D) ${}^{12}_6\text{C}, {}^{14}_6\text{C}$

(Space for Rough Work)

- 21) What is the current flowing through the given circuit? A given diode is an ideal diode.



- (A) 0.1 A ~~(B)~~ 100 mA
(C) 50 mA ~~(D)~~ 10 mA
- 22) When a reverse bias is applied to a p-n junction, it _____.
- (A) increases the majority carrier current and lowers the potential barrier
(B) increases the majority carrier current
(C) lowers the potential barrier
~~(D)~~ raises the potential barrier
- 23) A filter circuit used in a rectifier, the value of load resistance and capacitance are 200 Ω and 15 μF. Then the value of time constant is _____.
- (A) 1.33 ms (B) 3 ms
(C) 7.5 ms (D) 0.3 μs

(Space for Rough Work)

24) The electric field due to point charge $2q$ at a distance r is E . Now, charge q is uniformly distributed over a thin spherical shell of radius R , the electric field at a distance $\frac{r}{2}$ ($r \gg R$) from the centre of the thin spherical shell is $E' =$ _____.

(A) $4E$

~~(B) $2E$~~

(C) E

(D) $\frac{E}{2}$

25) 15 charges, each of value q are placed on X - axis at an equal distance $0.5R$. The maximum electric flux associated with the spherical closed surface of radius $1.5R$, in which one of the charges at the centre is _____.

~~(A) $\frac{5q}{\epsilon_0}$~~

(B) $\frac{7q}{\epsilon_0}$

(C) Zero

(D) $\frac{15q}{\epsilon_0}$

26) In the absence of gravity, a charge q and mass $2m$ is placed stationary in a uniform electric field of intensity E . When the charge is released, its speed after n seconds is _____.

(A) $2mqE$

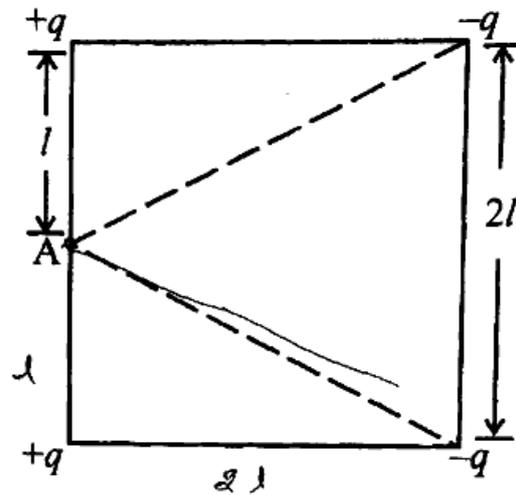
(B) $\frac{qEn}{m}$

~~(C) $\frac{qEn}{2m}$~~

(D) $\frac{2qEn}{m}$

(Space for Rough Work)

- 27) As shown in figure charges $+q$, $+q$, $-q$ and $-q$ are placed on the vertices of square, each side length is $2l$. The electric potential at mid-point 'A' of charges $+q$ and $+q$ is _____.



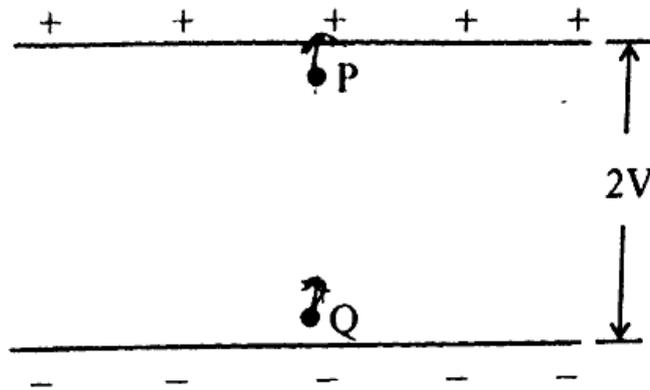
- (A) Zero
- (B) $\frac{2kq}{l} \left[1 + \frac{1}{\sqrt{5}} \right]$
- (C) $\frac{kq}{l} \left[1 - \frac{1}{\sqrt{5}} \right]$
- (D) $\frac{2kq}{l} \left[1 - \frac{1}{\sqrt{5}} \right]$

- 28) Charge $1.6 \times 10^{-7} \text{C}$ are distributed uniformly over the surface of spherical conductor of radius R . The ratio of electric potential inside the spherical conductor to the electric field on the surface is _____.

- (A) $1.6 \times 10^{-7} R^2$
- (B) R
- (C) $1.6 \times 10^{-7} R$
- (D) $\frac{1}{R}$

(Space for Rough Work)

- 29) The potential difference between two plates of parallel plate capacitor is 2V. As shown in figure electrons are placed at point P and Q. So



- (A) Electric forces acting on both the electrons are same.
 (B) Electric force acting on the electron at point P is greater than the electron at point Q.
 (C) Electric force acting on the electron at point P is less than the electron at point Q.
 (D) Electric forces acting on both the electrons are zero.
- 30) The drift velocity of an electron is v_d in a conductor of area of cross-section A and carries a current I. Now, the area of cross-section and current flowing through the conductor are double, then new drift velocity of the electron is _____.

(A) $\frac{v_d}{2}$

(B) $\frac{v_d}{4}$

(C) $4v_d$

(D) v_d

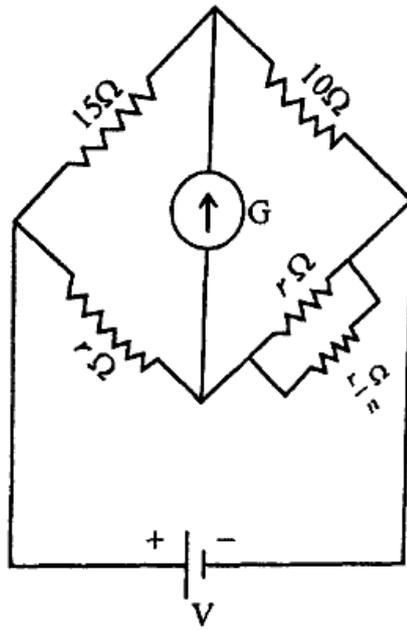
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$v_d =$

$I = v_d n e A$

$\frac{I}{n e A} = v_d$

31) As shown in the figure, balanced condition of Wheatstone Bridge is $n =$ _____



(A) $\frac{3}{2}$

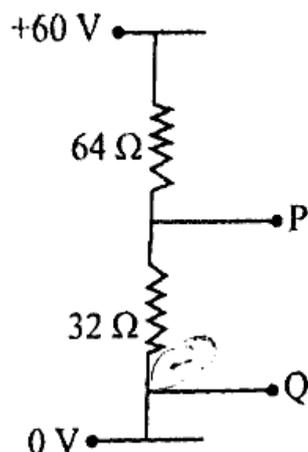
(B) $\frac{2}{5}$

(C) $\frac{1}{2}$

(D) $\frac{5}{2}$

(Space for Rough Work)

32) In the given circuit, potential difference between points P and Q is _____.



- (A) 128 V
(C) 96 V

- ~~(B) 20 V~~
(D) 60 V

33) The ratio of magnetic field at the centre of the ring of radius R to the point on the axis at a distance $2\sqrt{2}R$ from its centre is _____.

- (A) 27 : 1

- (B) 81 : 1

- ~~(C) 1 : 9~~

- (D) 1 : $2\sqrt{2}$

34) The dimensional formula of current sensitivity of moving coil galvanometer is

- (A) $[L^2]$

- (B) $[M^1L^2T^{-2}A^{-1}]$

- ~~(C) $[A^{-1}]$~~

- (D) $[M^1L^2T^{-2}]$

35) The horizontal component of the Earth's magnetic field at a certain place is $3 \times 10^{-5} T$ and the direction of the field is from the geographic South to the geographic North. A very long straight conductor is carrying a steady current of 1 A. What is the force per unit length on it when it is placed on a horizontal table and the direction of current is South to North?

- ~~(A) zero~~

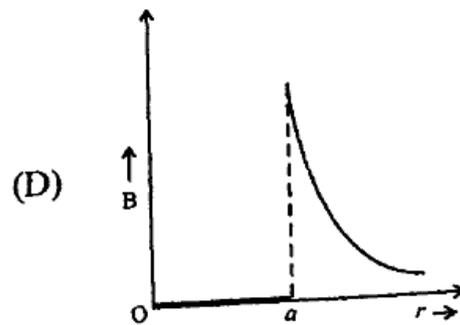
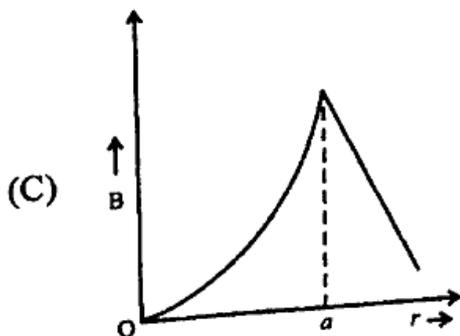
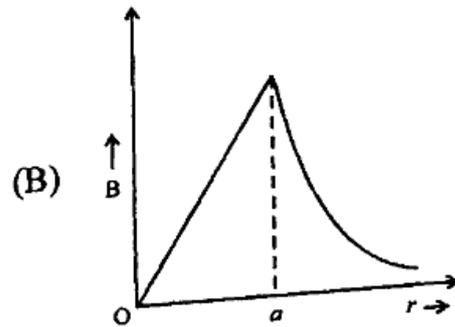
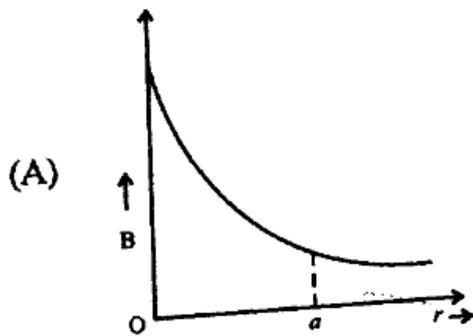
- (B) $1 \times 10^{-5} Nm^{-1}$

- (C) $6 \times 10^{-5} Nm^{-1}$

- (D) $9 \times 10^{-5} Nm^{-1}$

(Space for Rough Work)

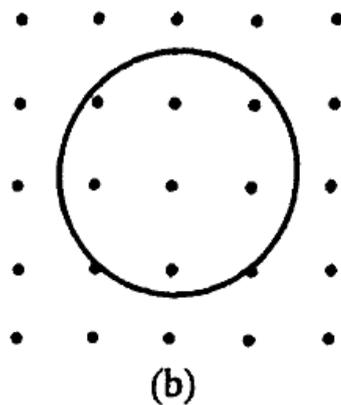
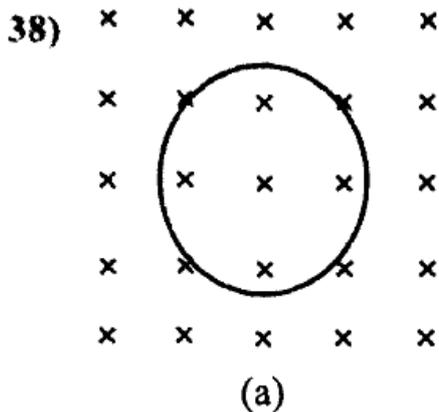
36) The magnetic field produced by a very long straight conducting wire of radius ' a ' and carrying current I is B , then the graph of magnetic field (B) \rightarrow distance (r) (perpendicular to the axis of the wire) is _____.



37) A paramagnetic substance is placed in a non-uniform magnetic field, then

- (A) perform continuous rotation
- (B) to move from a region of weak magnetic field to strong magnetic field
- (C) remain stationary
- (D) to move from a region of strong magnetic field to weak magnetic field

(Space for Rough Work)



As shown in figure two identical conducting rings of radius r are placed in magnetic field. In figure (a) magnetic field increasing at the rate of 0.3 T/s and in figure(b) magnetic field decreasing at the rate of 0.2 T/s . The direction of current in ring (a) and ring(b), when observe from top are _____.

- (A) Clockwise, Anticlockwise (B) Anticlockwise, Anticlockwise
 (C) Clockwise, Clockwise (D) Anticlockwise, Clockwise

39) A pair of adjacent coils has a mutual inductance of 2H . If the current in one coil changes from 0 to 30A in 0.15s , what is the change of flux linkage with the other coil?

- (A) 300 Wb (B) 6 Wb
 (C) 60 Wb (D) 15 Wb

40) In an AC generator, induced emf $\varepsilon = 0$ at $t = 0$, then its value _____.

- (A) minimum at time $\frac{2\pi}{3\omega}$ (B) minimum at time $\frac{\pi}{2\omega}$
 (C) maximum at time $\frac{2\pi}{\omega}$ (D) maximum at time $\frac{\pi}{2\omega}$

(Space for Rough Work)

CHEMISTRY

41) Half life period for certain zero order reaction is 10 min. then how much time is required for this reaction to complete 100%?

(A) 20 min.

(B) 30 min.

(C) 60 min.

(D) 40 min.

42) The half-life for radioactive decay of ^{14}C is 5730 years. An archaeological artifact containing wood had only 80% of the ^{14}C found in a living tree. Which is the correct formula for age (t) of the sample?

(A) $t = \frac{0.3}{5730} \log \frac{20}{100}$

(B) $t = \frac{5730}{0.3} \log \frac{100}{80}$

(C) $t = \frac{0.3}{5730} \log \frac{100}{20}$

(D) $t = \frac{5730}{0.3} \log \frac{80}{100}$

(Space for Rough Work)

- 43) According to Arrhenius equation which of the following statement is correct?
- (A) Decrease in temperature or increase in Activation Energy will increase rate of reaction.
 - (B) Increase in temperature and increase in Activation Energy will increase rate of reaction.
 - (C) Increase in temperature or decrease in Activation Energy will increase rate of reaction.
 - (D) Decrease in temperature and decrease in Activation Energy will increase rate of reaction.

- 44) Select correct reaction for the given rate.

$$\text{rate} = -6 \frac{d[A]}{dt} = -4 \frac{d[B]}{dt} = 3 \frac{d[C]}{dt} = 4 \frac{d[D]}{dt}$$

- (A) $2A + 3B \rightarrow 4C + 3D$
- (B) $6A + 4B \rightarrow 3C + 4D$
- (C) $3A + 2B \rightarrow 3C + 4D$
- (D) $3A + 2B \rightarrow 4C + 3D$

- 45) The highest Mn fluoride is MnF_4 whereas the highest oxide is Mn_2O_7 , because ____.

- (A) Fluorine does not have d-orbital.
- (B) Electronegativity of oxygen is more than fluorine.
- (C) Atomic volume of oxygen is less than fluorine.
- ~~(D) Oxygen forms multiple bonds and fluorine form single bond.~~

(Space for Rough Work)

51) What will be the value of Van't Hoff factor (i) for following coordination compound? (compound completely dissociate in aqueous solution)
Potassium trioxalatoaluminate (III)

~~(A) 4~~

(B) 5

(C) 2

(D) 3

52) According to crystal field theory for which of the following coordination entities Δ_0 is maximum?

(A) $[\text{CoCl}(\text{NH}_3)_5]^{2+}$

(B) $[\text{Co}(\text{NH}_3)_6]^{3+}$

(C) $[\text{Co}(\text{CN})_6]^{3-}$

~~(D) $[\text{Co}(\text{NH}_3)_5(\text{H}_2\text{O})]^{3+}$~~

53) Which of the following compound is not allylic halide?

(A) 1-Bromo-2-methylbut-2-ene

(B) 1-Bromobut-2-ene

(C) 3-Bromo-2-methylbut-1-ene

(D) 2-Bromo-2-methylbut-2-ene

54) How many minimum numbers of C-atom containing monohaloalkane shows Optical Isomerism?

(A) 6

(B) 4

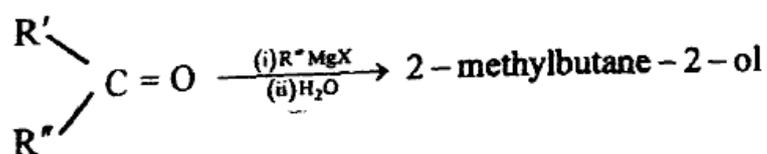
~~(C) 3~~

(D) 5

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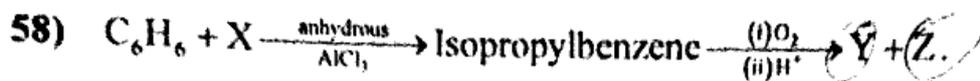
- 55) Which of the following compound has highest reactivity towards S_N2 reaction?
- (A) 1-Bromo-3-methylbutane (B) 1-Bromo-2,2-dimethylpropane
 (C) 1-Bromo-2-methylbutane (D) 1-Bromobutane
- 56) _____ compound is slowly oxidised by air in presence of light to an extremely poisonous gas, carbonyl chloride.
- (A) Trichloromethane (B) Methylene chloride
 (C) Chlorobenzene (D) Chloromethane

- 57) Identify R' , R'' and R''' for the following reaction

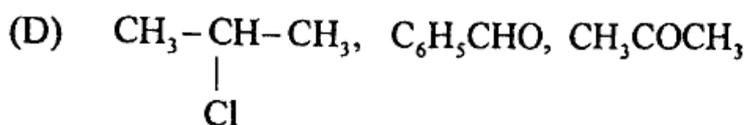
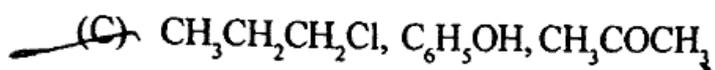
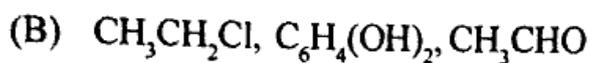
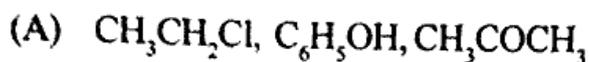


- (A) $R' = C_2H_5, R'' = C_2H_5, R''' = CH_3$
 (B) $R' = CH_3, R'' = C_2H_5, R''' = CH_3$
 (C) $R' = C_2H_5, R'' = CH_3, R''' = C_2H_5$
 (D) $R' = CH_3, R'' = CH_3, R''' = CH_3$

(Space for Rough Work)



In this reaction X, Y and Z are _____ respectively.



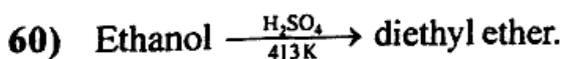
59) Which enzyme is used for fermentation of glucose?

(A) Sucrase

(B) Maltase

(C) Invertase

~~(D) Zymase~~



The above reaction is which type?

~~(A) Substitution nucleophilic bimolecular~~

(B) Substitution electrophilic bimolecular

(C) Substitution nucleophilic unimolecular

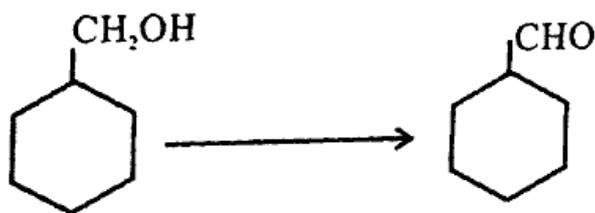
(D) Substitution electrophilic unimolecular

(Space for Rough Work)

61) Identify the functional group present in Vanillin.

- (A) $-\text{COOH}, -\text{OH}, -\text{OC}_2\text{H}_5$ ~~(B)~~ $-\text{CHO}, -\text{OH}, -\text{OCH}_3$
(C) $-\text{COOH}, -\text{CH}_3, -\text{OCH}_3$ (D) $-\text{CHO}, -\text{OH}, -\text{OC}_2\text{H}_5$

62) For the given reaction, identify the proper reagent.



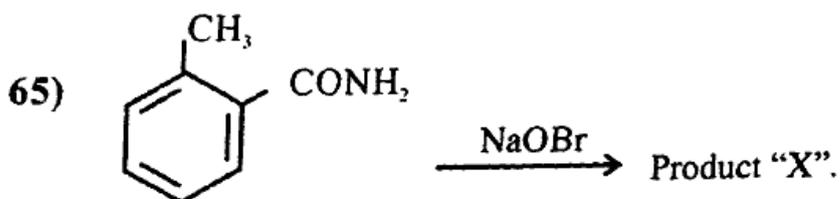
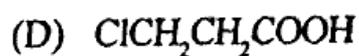
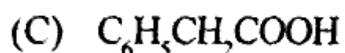
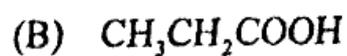
- (A) $\text{KMnO}_4/\text{H}_2\text{SO}_4$ (B) $\text{O}_3/\text{H}_2\text{O} - \text{Zn dust}$
~~(C)~~ $\text{C}_5\text{H}_5\text{NH}^+ \text{CrO}_3\text{Cl}^-$ (D) $\text{CrO}_3 + (\text{CH}_3\text{CO})_2\text{O}$

63) Which reagent is used to distinguish Acetophenone and Benzophenone?

- (A) $\text{Cu}^{2+}/\text{OH}^-$ (B) $\text{Br}_2/\text{H}_2\text{O}$
(C) $[\text{Ag}(\text{NH}_3)_2]^+/\text{OH}^-$ ~~(D)~~ NaOI

(Space for Rough Work)

64) For which compound pKa is highest?



Which statement is correct for Product "X"?

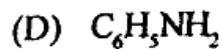
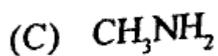
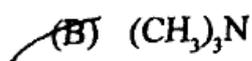
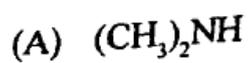
~~(A)~~ It is soluble in NaOH_(aq).

(B) It does not react with Hinsberg's reagent.

(C) It has one isomer of 2° amine.

(D) It does not give Azo dye test.

66) The most reactive amine towards dil. HCl is _____.



(Space for Rough Work)

67) Assertion: Only small amount of HCl is required in reduction of Nitrocompound with iron scrap.

Reason: FeCl_2 , formed gets hydrolysed to release HCl during the reaction.

(A) Assertion is wrong but Reason is correct.

(B) Both Assertion and Reason are correct, Reason give correct explanation for Assertion.

(C) Assertion is correct but Reason is wrong.

(D) Both Assertion and Reason are correct, Reason does not give correct explanation for Assertion.

68) Which type of solution of phenol is required to prepare Orange dye by coupling reaction?

(A) Alkaline solution of phenol

(B) Neutral solution of phenol

(C) Acidic solution of phenol

(D) CCl_4 solution of phenol

69) _____ nucleotide is not present in RNA.

(A) Uracil containing

(B) Adenine containing

(C) Cytosine containing

(D) Thymine containing

(Space for Rough Work)

70) Each polypeptide in a protein has amino acids linked with each other in a specific sequence. This sequence of amino acids is called _____ structure of that protein.

(A) Quaternary structure

(B) Tertiary structure

~~(C) Primary structure~~

(D) Secondary structure

71) Deficiency of _____ vitamin causes scurvy disease.

(A) Pyridoxine

~~(B) Ascorbic acid~~

(C) Riboflavin

(D) Thiamine

72) Reaction with which reagent glucose form oxime?

(A) CH_3OH

~~(B) NH_2OH~~

(C) NH_4OH

(D) NH_2NH_2

(Space for Rough Work)

73) What will be mass percentage of aqueous solution of NaOH in which mole fraction of NaOH is 0.2?

(A) 64.86% W/W

(B) 35.71% W/W

(C) 23.38% W/W

(D) 27.78% W/W

74) For which of the following mixture $\Delta_{\text{mix}} H > 0$?

(A) $\text{CHCl}_3 + \text{CH}_3\text{COCH}_3$

(B) $\text{C}_6\text{H}_5\text{NH}_2 + \text{C}_6\text{H}_5\text{OH}$

(C) $\text{C}_2\text{H}_5\text{OH} + \text{CH}_3\text{COCH}_3$

(D) $\text{C}_6\text{H}_6 + \text{C}_6\text{H}_5\text{CH}_3$

75) Which is the correct order for solubility of following compound in n-octane (at Identical Condition) <https://www.pyqonline.com>

I) Cyclohexane

II) KCl

III) CH_3OH

IV) CH_3CN

(A) II < III < IV < I

(B) II < IV < III < I

(C) I < IV < III < II

(D) I < III < IV < II

(Space for Rough Work)

76) _____ solution is hypertonic with reference to fluid inside the blood cell.

~~(A)~~ 0.8% W/V NaCl

(B) 0.6% W/V NaCl

(C) 0.9% W/V NaCl

(D) 1.2% W/V NaCl

77) Which relation is correct for $\Lambda_{m(\text{H}_2\text{O})}^{\circ}$?

(A) $\Lambda_{m(\text{HCl})}^{\circ} + \Lambda_{m(\text{NH}_4\text{Cl})}^{\circ} - \Lambda_{m(\text{NH}_4\text{OH})}^{\circ}$

~~(B)~~ $\Lambda_{m(\text{HCl})}^{\circ} + \Lambda_{m(\text{NaOH})}^{\circ} - \Lambda_{m(\text{NaCl})}^{\circ}$

(C) $\Lambda_{m(\text{HNO}_3)}^{\circ} + \Lambda_{m(\text{NaNO}_3)}^{\circ} - \Lambda_{m(\text{NaOH})}^{\circ}$

(D) $\Lambda_{m(\text{HNO}_3)}^{\circ} + \Lambda_{m(\text{Ba}(\text{OH})_2)}^{\circ} - \Lambda_{m(\text{Ba}(\text{NO}_3)_2)}^{\circ}$

78) For Daniell cell $E_{\text{cell}}^{\circ} = 1.1$ V. How Kc is represented for reaction occurring in Daniell cell?

~~(A)~~ $K_c = 10^{2.2/0.059}$

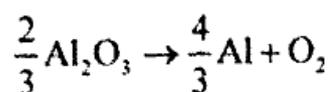
(B) $K_c = 10^{-0.059/1.1}$

(C) $K_c = 10^{-2.2/0.059}$

(D) $K_c = 10^{0.059/1.1}$

(Space for Rough Work)

79) For the given reaction how much quantity of electricity in Coulomb is required?



(A) $6 \times 96500 \text{ C}$

(B) $2 \times 96500 \text{ C}$

~~(C) $3 \times 96500 \text{ C}$~~

(D) $4 \times 96500 \text{ C}$

80) Which statement is correct for ΔG and E_{cell} ? (For cell reaction)

(A) ΔG is intensive and E_{cell} is extensive property.

(B) Both ΔG and E_{cell} are intensive properties.

~~(C) ΔG is extensive and E_{cell} is intensive property.~~

(D) Both ΔG and E_{cell} are extensive properties.

(Space for Rough Work)