GUJCET-E-2015

Test Booklet No.



Test Booklet Code



This booklet contains 48 pages.

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

Important Instructions:

- This test consists 120 questions of Physics, Chemistry and Biology. Each question carries 1
 mark. For each correct response the candidate will get 1 mark. For each incorrect response ¼
 mark will be deducted. Maximum marks is 120.
- This Test is of 3 hours duration.
- Use Black Ball Point Pen only for writing particulars on OMR Answer Sheet and marking answers by darkening the circle 40?.
- 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 CODE for this Booklet is C. Make sure that the CODE 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.
- 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.
- 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.
- No candidate, without special permission of the Superintendent or Invigilator, should leave his /her seat.
- 12) Use of 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) be deemed not to have handed over the Answer Sheet and 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.
- No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 16) The candidates will write the Correct Test Booklet Code as given in the Test Booklet / Answer Sheet in the Attendance Sheet (Patrals 01)

Candid	ate's Name :	TANAH.C.	SHA.		Ş£	.دە.	1H3.6						
ste:The	Information	provided	here	is	only	for	reference	.It	may	vary	the	0:10	nal

PHYSICS

- One moving electron when comes closer to other stationary electron, then
 its kinetic energy and potential energy respectively _____ and _____.
 - (A) increases, increases
- (B) increases, decreases
- (C) decreases, increases
- (D) decreases, decreases
- 2) An inclined plane of length 5.60 m making an angle of 45° with the horizontal is placed in an uniform electric field E = 100 Vm⁻¹. A particle of mass 1 kg and charge 10⁻² C is allowed to slide down from rest position from maximum height of slope. If the co-efficient of friction is 0.1, the time taken by the particle to reach the bottom is ______.
 - (A) 1s

(B) 1.41 s

(C) 2s

- (D) None of these
- 2\sqrt{2} m. The potential at the point of intersection of the diagonals is $(K = 9 \times 10^{9} \text{ SI unit})$
 - (A) 18×10¹ V

(B) 1800 V

(C) $18\sqrt{2} \times 10^3 \text{ V}$

- (D) None of these
- J. HC.
- A point charge q is situated at a distance r on axis from one end of a thin conducting rod of length L having a charge Q[Uniformly distributed along its length]. The magnitude of electric force between the two is _____.
 - \sqrt{KQq}

(B) $\frac{2KQ}{r(r+L)}$

(C) $\frac{KQq}{r(r-L)}$

(D) $\frac{KQq}{r(r+L)}$

(Space for Rough Work)

Kog .

9×109×106×10

- 5) If alpha particle and deutron move with velocity v and 2v respectively, the ratio of their de Broglie wave length will be _____.
 - UA) 2:1

(B) 1:√2

(C) 1:1

- (D) √2:1
- 6) de Broglie wave length of atom at TK absolute temperature will be
 - (A) $\frac{h}{\sqrt{3mKT}}$

 $(B) \frac{h}{mKT}$

(C) $\frac{\sqrt{2mKT}}{h}$

- (D) √2mK7
- 7) If the wave length of light is 4000A°, then the number of waves in 1 mm length will be _____. 10^{9} m $\lambda = 4000$
 - (A) 2500

(B) 25

(C) 250

- (D) 25(X)()
- 8) The frequencies of X rays, γ rays and Ultra violet rays are respectively p, q and r then
 - (A) p > q, q > r

(B) p < q, q > r

(E) p< 4.4<r

- (D) p > q, q < r
- Photons having energy 1eV and 2.5 eV successively incident on a metal, having work function is 0.5 eV. The ratio of maximum speed of emitted electrons is
 - (A) 2:1

(B) 1:2

(C) 3:1

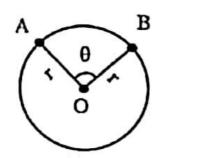
(D) 1:3

(Space for Rough Work)

w= o.gw

7 whs

10) A and B are two points on a uniform ring of radius r. The resistance of the ring is R. ∠AOB = θ as shown in the figure. The equivalent resistance between points A & B is ______.



(A) $\frac{R(2\pi-\theta)}{4\pi}$

(B) $\frac{R\theta}{2\pi}$

(C) $R\left(1-\frac{\theta}{2\pi}\right)$

(D) $\frac{R}{4\pi^2}(2\pi-\theta)\theta$

10.

11) Two wires of equal length and equal diameter and having resistivities ρ₁ and ρ₂ are connected in series. The equivalent resistivity of the combination is ______.

$$(A) \quad \frac{\rho_1 + \rho_2}{2}$$

$$\mathcal{B}$$
 $(\rho_1 + \rho_2)$

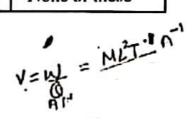
$$(C) \quad \frac{\rho_1 \rho_2}{\rho_1 + \rho_2}$$

(D)
$$\sqrt{\rho_1\rho_2}$$

12) Match the following two columns.

	Column I		Column II
a)	Electrical resistance	p)	ML ³ T ⁻³ A ⁻²
b)	Electrical potential	(p	ML ² T ⁻¹ A ⁻²
c)	Specific resistance	(2)	ML2T-3A-1
d)	Specific conductance -	s)	None of these

- (A) a-q, b-r, c-p, d-s
- (B) a-q, b-s, c-r, d-p
- (C) a-p, b-q, c-s, d-r
 - (D) a-p, b-r, c-q, d-s



- 13) Angle of minimum deviation for a prism of refractive index 1.5 is equal to the angle of prism of given prism. Then the angle of prism is (sin 48°36' = 0.75)
 - (A) 80°

(B) 41°24'

(C) 60°

- (D) 82°48'
- 14) A ray of light passes from a medium A having refractive index 1.6 to the medium B having refractive index 1.5. The value of critical angle of medium A is ______.
 - (A) $\sin^{-1}\sqrt{\frac{16}{15}}$

(B) $\sin^{-1}\left(\frac{16}{15}\right)$

(C) $\sin^{-1}\left(\frac{1}{2}\right)$

(D) $\sin^{-1} \left(\frac{15}{16} \right)$

,	_				
15) The	power of	plane	mirror	15	

(A) 0

JBJ ∞

(C) 2D

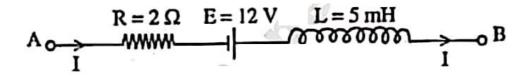
- (D) 4D
- 16) Light waves travel from optically rarer medium to optically denser medium.

 Its velocity decreases because of change in ______
 - (A) wavelength

(B) frequency

(C) amplitude

- (D) phase
- 17) The Network shown in Figure is a part of the circuit. (The battery has negligible resistance)



At a certain instant the current I = 2 A and it is decreasing at the rate of 10^2 As⁻¹. What is the potential difference between the points B and A?

(A) 8.5 V

(8.0 V

(C) 10 V

- (D) 15 V
- 18) A rod of 10 cm length is moving perpendicular to uniform magnetic field of intensity 5 x 10⁻¹ Wb/m². If the acceleration of the rod is 5 m/s², then the rate of increase of induced emf is _____.
 - (A) $25 \times 10^{-4} \text{ Vs}$

(B) $2.5 \times 10^{-4} \text{ Vs}^{-1}$

(C) 20 x 10⁻¹ Vs

(D) 20 × 10-4 Vs-1

19) A current of $\frac{25}{\pi}$ Hz frequency is passing through an A.C. circuit having series combination of $R = 100 \Omega$ and L = 2 H, the phase difference between voltage and current is _____

(A) 60°

(B) 90°

(C) 30°

(D) 45°

20) In A.C. circuit having only capacitor, the current _____

(A) leads the voltage by $\frac{\pi}{2}$ in phase

(B) lags behind the voltage by $\frac{\pi}{2}$ in phase

(2) leads the voltage by π in phase

(D) lags behind the voltage by π in phase

21) An alternating voltage given as V=100√2 sin 100t volt is applied to a capacitor of 1 μF. The current reading of the ammeter will be equal to mA.

(A) 20

C = 145

(B) 10

(C) 40

V=

(D) 80

22) The distance of the closest approach of an alpha particle fired at a nucleus with kinetic energy K is r_o. The distance of the closest approach when the operaticle is fired at the same nucleus with kinetic energy 2K will be

(A) 4r₀

(B) $\frac{\mathbf{r}_0}{2}$

 $(e) \frac{r_0}{4}$

(D) $2r_0$

- 23) Number of spectral line in hydrogen atom is
 - (A) 8

(B) 6

(C) 15

- (D) a
- 24) A radioactive element X disintegrates successively as under

$$X \xrightarrow{\beta^-} \overset{160}{\underset{1}{\cancel{\times}}} X_1 \xrightarrow{\alpha} \overset{176}{\underset{1}{\cancel{\times}}} X_2 \xrightarrow{\beta^-} \overset{190}{\underset{1}{\cancel{\times}}} X_3 \xrightarrow{\alpha} \overset{192}{\underset{1}{\cancel{\times}}} X_4$$

If atomic number and atomic mass number of X are respectively 72 and 180, what are the corresponding values for X₄?

(A) 69, 172

(B) 69, 176

(C) 71, 176

- (0) 70, 172
- 25) The energy released by the fission of one uranium atom is 200 MeV. The number of fission per second required to produce 6.4 W power is _____.
 - (A) 2×1011

(B) 10¹¹

(C) 10¹⁰

- (D) 2×10^{10}
- 26) If by successive disintegration of $_{92}U^{238}$, the final product obtained is $_{82}Pb^{206}$, then how many number of α and β particles are emitted?
 - (A) 6 and 8-

(B) 8 and 6

(C) 12 and 6

(D) 8 and 12

A change of 0.04 V takes place between the base and the emitter when an input signal is connected to the CE transistor amplifier. As a result , 20 μA change take place in the base current and a change of 2 mA takes place in the collector current. Find the input resistance and A.C. current gain.

(A) 1kΩ, 100

(B) 2kΩ, 100

(C) 2kΩ, 200

(D) 1kΩ, 200

A plane polarized light is incident normally on a tourmaline plate. Its 12 28) vectors make an angle of 60° with the optic axis of the plate. Find the percentage difference between initial and final intensities.

(B) 25%

(C) 75%

(D) 90%

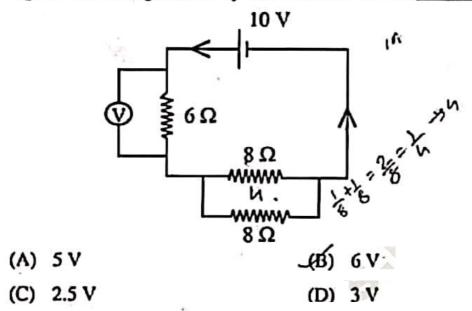
Light of wave length \(\lambda\) is incident on slit of width d. The resulting diffraction 29) pattern is observed on a screen placed at distance D. The linear width of central maximum is equal to width of the slit, then D = ____

(A) $\frac{2\lambda^2}{d}$ (C) $\frac{d}{\lambda}$

(B) $\frac{d^2}{2\lambda}$

30)	In a N-P-N transistor about 10^{10} electrons enter the emitter in $2\mu s$, when it is connected to a battery. Then $I_E = \mu A$.						
	(A)	400					
	(B)	200					
ن	œs	800 .					
	(D)	1600					
31)		o-314 effective length of a magnet is 31.4 cm and its pole strength is 0.8 Am. magnetic moment, if it is bent in the form of a semicircle is Am ² .					
	(A)	1.2					
	(B)	1.6					
•	(C)	0.16					
	(D)	0.12					
32)		al currents are passing through two very long and straight parallel wires are same direction. They will					
し	K)	attract each other					
	(B)	repel each other					
	(C)	lean towards each other					
	(D)	neither attract nor repel each other					
		(Space for Rough Work)					
		•					

33) A voltmeter of a very high resistance is joined in the circuit as shown in figure. The voltage shown by this voltmeter will be ______.



G=502 34 V=8 R:3950 A galvanometer of resistance 50 Ω is connected to a battery of 8 V along with a resistance of 3950 Ω in series. A full scale deflection of 30 day is obtained in the galvanometer. In order to reduce this deflection to 15 division, the resistance in series should be _____ Ω

(A) 1950

(B) 7900

(C) 2000

(D) 7950

35) At a place on Earth, the vertical component of Earth's magnetic field in 1/3 times its horizontal component. The angle of dip at this place is

JAN 60°

(B) 30°

(C) 45°

(D) 0°

Which gate can be obtained by shorting both the input terminals of a NOR gate.					
(A)		(B)	OR		
(C)	AND	LD)	NAND		
An o	ptical fiber can offer a band wid	th of _			
(A)	100 GHz	'(B)	100 MHz		
(C)	750 MHz	(D)	250 MHz		
To t	ransmit a signal of 3 KHz frequer	icy, th	e minimum length of antenna is		
M	25 8 × 10 ×	(B)	20		
(C)	50	(D)	75		
dro	ential of 10 Volt. Assuming the cops are made to combine to form o	lrop to	be spherical, if all the charged		
(A)	40	(B)	90		
(C)	160	(D)	10		
(A)	+1.6 C	(B)	–1.6 C		
(C)	10 ¹⁹ C	(D)	10 ⁻¹⁹ C		
	(Space for Ro	ugh	Work)		
	(A) (C) An o (A) (C) To to (A) (C) 27 i pote drop (A) (C) Win pro (A)	(A) NOT (C) AND An optical fiber can offer a band wide (A) 100 GHz (C) 750 MHz To transmit a signal of 3 KHz frequer km km km km km km km km km k	(A) NOT (C) AND (B) An optical fiber can offer a band width of (A) 100 GHz (B) (C) 750 MHz (D) To transmit a signal of 3 KHz frequency, the km salos = 105 (B) (C) 50 (D) 27 identical drops of mercury are charged potential of 10 Volt. Assuming the drop to drops are made to combine to form one larged volt. (A) 40 (B) (C) 160 (D) When 1019 electrons are removed from a magnetic process, the charge on it becomes(B)		

CHEMISTRY

- 41) Which method is used to get very pure germanium used in semiconductor?
 - (A) vapour phase refining
 - (B) electrolysis
 - (C) liquation
 - (D) zone refining
- 42) Which product will be obtained in the following reaction?

Reaction: $P_{4(1)} + 3NaOH_{(nq)} + 3H_2O_{(1)} \rightarrow \mathcal{D}^{TH_3}$ 13 Na H₂ PO 1

$$PH_{3_{(a)}} + 3NaH_2PO_{2_{(a)}} \times (B) PH_{3_{(a)}} + 3Na_2HPO_{2_{(a)}} \times$$

(C)
$$\frac{2PH_{3(1)} + 3Na_2HPO_{2(n)}}{}$$
 (D) $2PH_{3(1)} + 3NaH_2PO_{3(n)}$

- 43) The molecular formulae for phosgene and tear gas are ____ and ___ respectively.
 - (A) COCl₂ and CCl₂NO₂× (B) SOCl₂ and CCl₂NO₂ ×
 - (C) COCl₂ and CCl₃NO₂ (D) SOCl₂ and CCl₃NO₂
- 44) Which of the following mixture is called Aquaregia?
 - (A) Three parts of dil. HCl and 1 part of conc. HNO,
 - (B) Two parts of conc. HCl and two parts of conc. HNO3
 - (C) Three parts of conc. HCl and 1 part of dil. HNO,
 - (D) Three parts of conc. HCl and 1 part of conc. HNO₃

45)	W	nich of the following is allylic ha	lide?	J
	(A)	(I - bromo ethyl) benzene	4	1×
	(B)	Benzyl chloride		
	(C)	1 - bromo benzene		
	(D)	3 - chloro cyclo hex-1-ene		
46)		% of the reagent is used for dehydr at will be the weight of the main		
	[At	. mass of H, C and Cl are 1, 12 &	35.5	gm/mole-1 respectively]
	(A)	1.4 gm	(B)	0.7 gm .
	(C)	2.8 gm	(D)	5.6 gm
47)	Nan	ne the following reaction CH, CH,	CI+N	InIacetone CH,CH,I + NaCl
	(A)	Frinkel-stein reaction		
	(B)			
		Wurtz reaction		
	(D)	Hell-Volhard Zelinsky reaction		
48)	Whi	ch reagent is used for bromination	ı of m	ethyl phenyl ether?
	(A)	Br ₂ /CH ₃ COOH		
	(B)	Br ₂ / Red P		
	(C)	Br ₂ / FeBr ₃		
7	(DY	HBr/∆		
		(Space for Roug	h W	ork)
		\ -		

- 49) Which of the following acid does not have -COOH group?
 - Picric acid 💇

(B) Ethanoic acid

(C) Benzoic acid

- (D) Salicylic acid ~
- 50) Which of the following statement is not correct?
 - (A) Phenol is neutralised by sodium carbonate
 - (B) Phenol is used to prepare analgesic drugs
 - (C) Solubility of phenol in water is more than that of chlorobenzene.
 - (D) Boiling point of o-nitrophenol is lower than that of p-nitrophenol
- Total order of reaction $X + Y \rightarrow XY$ is 3. The order of reaction with respect to X is 2. State the differential rate equation for the reaction.

(A)
$$-\frac{d[X]}{dt} = K[X]^{0}[Y]^{1}$$
 (B) $-\frac{d[X]}{dt} = K[X]^{0}[Y]^{0}$

(B)
$$-\frac{d[X]}{dt} = K[X]^3[Y]^5$$

(C)
$$-\frac{d[X]}{dt} = K[X]^2[Y]$$
 (D) $-\frac{d[X]}{dt} = K[X][Y]^2$

(D)
$$-\frac{d[X]}{dt} = K[X][Y]^2$$

- 52) $X \xrightarrow{Skp-1} Y \xrightarrow{Skp-1} Z$ is a complex reaction. Total order of reaction is 2 and Step - II is slow step. What is molecularity of Step-II?
 - (A) 2

(C) 3

(D) 4

53) Reaction $3CIO^{-} \rightarrow CIO_{3}^{-} + 2CI^{-}$ occurs in following two steps.

- (i) $CIO^{-} + CIO^{-} \xrightarrow{K_1} CIO_{2}^{-} + CI^{-} (Slow step)$
- (ii) $ClO_2^- + ClO^- \xrightarrow{K_2} ClO_3^- + Cl^-$ (Fast step)

then the rate of given reaction = _____.

(A) K,[ClO-]

- (B) K, [CIO]2
- (C) K₂[ClO₂] [ClO⁻]
- (D) K₂[ClO⁻]³

54) At given temperature and pressure adsorption of which gas of the following will take place the most?

(A) Di oxygen AOL

- (B) Di hydrogen H2
- (C) Ammonia NH3
- (D) Di nitrogen N2

55) Which type of colloid is the dissolution of sulphur (S₂)?

(A) Micelle

- B) Associated colloid
- (C) Multimolecular colloid
- (D) Macromolecular colloid

56) For Adsorption phenomenon,

- (A) $\Delta H = -ve$, $\Delta S = +ve$
- (B) $\Delta H = +ve$, $\Delta S = -ve$
- $\Delta H = -vc, \Delta S = -vc$
- (D) $\Delta H = +ve$, $\Delta S = +ve$

57) Which of the following statement is incorrect for KMnO₄?

(A) It is used as antiseptic.

- (B) It is an oxidising agent.
- (C) It is used as bleaching agent in textile industries.
- (D) It is dark purple coloured amorphous substance.
- 58) Which of the following ion has the maximum theoretical magnetic moment?
 - (A) Cr3.

AD) Co₃; AB) Ee₃,

(C) Ti3+

- 59) Which of the following oxide has the maximum basicity?
 - (A) Pr₂O₃

(B) La,O,

(C) Sm₂O₃

- (D) Gd,O,
- 60) Which of the following spectrochemical series is true?
 - (A) $SCN^- < F^- < NH_1 < cn < CO$
 - (B) SCN < NH, < F < en < CO
 - (C) $SCN^- < F^- < en < NH_3 < CO$
 - (D) $SCN^- < F^- < en < CO < NH$,

61)	Which of the following comple	ex is parama	paramagnetic?			
	(A) [Co(NH ₃) ₆] ³ *	(B)	[Ni (CO) ₄]			

(C) [Ni (CN)₄]²-

Both [Ni (CO)₄] and [Ni(CN)₄]²⁻ are diamagnetic. The types of hybridisation of Ni in these complexes are _____ & ____ respectively.
 (A) sp³, dsp²
 (B) sp³, sp³

(D) [NiCl,]2-

- (C) dsp², sp³ (D) dsp², dsp²
- (A) CH₃·CH₂·CH.COOH > CH₃·CH·CH₂·COOH > CH₂·CH₂·COOH | | CI CI
 - (B) Cl₃·C·COOH > Cl₂·CH·COOH > Cl·CH₂·COOH (C) H·COOH > Ch₃ COOH > C₆H₃COOH
 - (D) $CH_3COOH > CH_3 \cdot CH_2 \cdot COOH > (CH_3)_2 \cdot CH \cdot COOH$
- 64). What is the formula of Acrolcin?
 - (A) CH, = CH CN
 - (B) $CH_2 = CH CHO$
 - (C) $CH_2 = CH COOH$
 - (D) $CH_2 = CH CONH_2$

65) What is IUPAC name for isophthalic acid?

(A) Benzene - 1, 2 dicarboxylic acid

(B) Benzene - 1, 3 dicarboxylic acid

(C) Benzene - 1, 4 dicarboxylic acid

(D) Benzene - 1, 5 dicarboxylic acid

66) What is the name for red azo dye?

(A) β - napthyl azo benzene

(B) p-hydroxy azo benzene

(C) p - amino azo benzene

(D) p - N, N dimethyl amino azo benzene

67) Which of the following is not formed by Sandmayer reaction?

(A) C,H,I

(B) C₆H₅Cl

(C) C₆H₅Br

(D) C,H,CN

68) For which vitamin liver is not the source?

(A) Vitamin - B,

(B) Vitamin - B

(C) Vitamin - B₁₂

(D) Vitamin - H

69)	In which of the following compound, all the monosaccharide units are not joined by C ₁ - O - C ₄ chain.						
	(A)	Lactose	(B)	Maltose			
	(C)	Cellulose	JB)	Amylopectin			
70)		ich of the following polyme merisation reaction?	r is f	ormed by cationic addition			
	(A)	Poly styrene	(B)	Butyl rubber			
	(C)	ТеПоп	(D)	PVC			
71)	Whi	ich of the following polymer is u	sed in	pigment?			
	(X)	Neoprene	(B)	Buna - S			
	(C)	Teflon	(D)	Orlon			
72)	72) To prevent food from spoilage by microorganism, which substance is used?						
	(A)	Ameto	(B)	Aspartame			
	(C)	Salt of sorbic acid	(D)	Tetrazine			
(Space for Rough Work)							

etal deficiency defect						
etal excess defect						
isplacement defect						
purity defect						
of the following substance pos	sess :	antiferromagnetic property?				
		Fe ₃ O ₄				
0		MnO				
ling points for aqueous solution	ons o	of sucrose and urea are same at				
t temperature. If 3 gm of urea	is d	lissolved in its 1 litre solution.				
the weight of sucrose dissolved to the sucrose = 342 arr	d in i	its 1 litre solution?				
•	The second secon					
Guin	(D)	34.2 gram				
ption is inconsistant for Raoul	t's la	ıw?				
ution.		,				
Solute does not undergo association in solution						
ute undergoes dissociation in	soluti	ion				
(Space for Roug	h W	(ork)				
	etal excess defect splacement defect splacement defect spurity defect of the following substance pose O2 O ling points for aqueous solution temperature. If 3 gm of urea the weight of sucrose dissolved to gm/mole, sucrose = 342 gm I gram gram ption is inconsistant for Raoul e change in heat of dilution for lume of liquid solvent + volution. ute does not undergo association ute undergoes dissociation in se	etal excess defect splacement defect purity defect of the following substance possess O ₂ (B) O (D) ling points for aqueous solutions of temperature. If 3 gm of urea is defect the weight of sucrose dissolved in it is of gm/mole, sucrose = 342 gm/mole, sucrose = 342 gm/mole, gram (B) gram (B) ption is inconsistant for Raoult's later change in heat of dilution for solution.				

77)	Which colligative property is more useful to determine the molecular weight of the substances like proteins and polymers?					
١.	(A)	Elevation in boiling point				
		Lowering of vapour pressure 4	•			
	(C)	Depression of freezing point				
	(D)	Osmotic pressure +		(4)		
78)		resulting solution obtained at the cous solution of NaCl	e end	of electrolysis of concentrated		
	(A)	turns blue litmus into red				
	(B)	turns red litmus into blue				
	(C)	remains colourless with phenol	phtha	lein		
,	(JS)	the colour of red or blue litmus	does	not change		
į.	0			4 B C.		
79)		value of E_{rel}^{o} for metal A, B and C respectively. State the correct or it.		0.34 Volt, -0.80 Volt and -0.46		
	(A)	A > B > C	(B)	C > B > A		
	(S)	B>C>A	(D)	C > A > B		
80)	Aluminium chloride are connected in series. If same amount of electric current is passed through them, what will be the weight of Nickel obtained when 18 gm of Aluminium is obtained? (Al - 27 gm/mole, Ni - 58.5 gm/mole ¹)					
	(A)	117 gm	(B)	58.5 gm		
	(C)	29.25 gm	(D)	5.85 gm		
	(Space for Rough Work)					