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SECOND MID TERM TEST - 2024

Time Allowed: 1.30 Hours]		CHEMIS	[Max. Marks: 50		
		PART	- A		
١.	Answer all the questions.				10x1=10
1.	Sodium is stored in			Intellection of the second	
	a) Alcohol b)	Water	c)	Kerosene	d) None of these
2.	Which one of the following b	inary liquid mixtures	s ex	hibits positive deviat	tion from Raoult's law?
	a) Acetone + chloroform		b)	Water + nitric acid	
1	c) HCI + water	entimines & &A	d)	ethanol + water	A Same
3.	Which among the following	alkenes on reductiv	e oz	conolysis produces	only propane?
	a) 2 - Methyl propene		b)	2 - Methyl but - 2	- ene
	c) 2, 3 - Dimethyl but - 1	– ene	d)	2, 3 - Dimethyl bu	t – 2 – ene
4.	Which of the following is not	an alkaline earth m	etal	?	
	a) Calcium b)	Rubidium	c)	Magnesium	d) Barium
5.	Assertion : Generally a	lkali and alkaline ea	arth	metals form supero	xides
	Reason : There is a	single bond betweer	10	and O in superoxide	es. (
	a) both assertion and reas	son are true and rea	ason	is the correct expla	anation of assertion
	b) both assertion and reas	son are true but rea	son	is not the correct e	xplanation of assertion
	c) assertion is true but rea	son is false		is hater him	
. •	d) both assertion and reas	son are false		\$100 *12 *12 *15 *15 *15 *15 *15 *15 *15 *15 *15 *15	
6.	Which of the following can b	e used as the halid	e co	mponent for friedal	- crafts reaction?
	a) Chloro benzene b)	Bromo benzene	c)	chloro ethane	d) isopropyl chloride
7.	Alkynes can be reduced to	c is alkenes using -		catalyst.	
	a) Ni		b)	Lindlar's	
	c) Fe		d)	sodium in liquid am	monia
8.	For NaCl the theoretical n	nolar mass is 58.5	and	d experimental mo	lar mass is 38.75 then
	van't- Hoff factor (i) is				
	a) 0 b)	1	c)	1.50	d) 2.5
2.	Which one of the following g	ases has the higher	,		
	a) N, b)	He		co,	d) H,
10.	Which of the following has h			4 7 7	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	a) MgCl ₂ b)	CaCl,		BaCl ₂	d) SrCl
	u, mgOi ₂ 0)	Suoi ₂	٥,	Duoi, 1	2, 0.0.2

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PART - II

5X2=10

- II. Answer any 5 questions. Question number 17 is compulsory.
- 11. Why gypsum is referred to as 'desert rose'?
- 12. How will you identify the unsaturated hydrocarbons?
- 13. Define the term 'isotonic solution'.
- 14. Find the molality of the solution containing 45 g of glucose dissolved in 2 kg of water.
- 15. Write note on anomalous nature of Lithium.
- 16. What is osmosis?
- 17. Draw the structural formula for 4,5 diethyl 3,4,5 trimethyl octane.

PART - III

III. Answer any Five Questions. (Question No. 24 is compulsory)

5x3=15

- 18. What is mean by colligative property? Name them.
- 19. Differentiate Ideal and non-ideal solutions.
- 20. Write Dow's process.
- 21. How will you prepare BHC? Write its use?
- 22. Discuss briefly about the similarities between Be and Al.
- 23. Explain Markovnikov's rule with an example.
- 24. 0.24 g of a gas dissolves in 1 L of water at 1.5 atm pressure. Calculate the amount of dissolved gas when the pressure is raised to 6 atm at constant temperature.

PART-IV

IV. Answer the following Questions.

3x5=15

25. a) State Henry's lawand explain its limitations.

(OR

- b) Explain the structural elucidation of Benzene.
- 26. a) i) Discuss the similarities between beryllium and aluminium. (3)
 - ii) Write Birch reduction (2)

(OR)

- b) i) How will you prepare Lindane? Write its use? (3)
 - ii) State Raoult's law (2)
- 27. a) Write the following reactions.
 - i) Friedel Craft's acetylation (3)
 - ii) Wurtz reaction (2)

(OR)

- b) i) How is plaster of paris prepared? Write its uses. (3)
 - ii) Write Huckel's rule (2)

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