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SECOND MID TERM TEST - NOVEMBEER - 2022

Tin	e Allowed : 1.30 Hor	urs]	C	HEMIS				[Max. Marks : 50 10 X 1 = 10
	.,5				PART – A			
	nswer all the ques		1		74			10 14 15
1.	Sodium salts give							
	a) Crimson red	b)	blue	c	yellow	7000	d) violet	
2.	is called	baking s	oda.					N. Co.
	a) NA,CO,.10 H	1,0 b)	Naci	. с	NaHCO,		d) HNO ₃	H. Allia
3.	The Van't Hoff fa	ctor (i) for	a dilute a	queoussolu	tion of the	strong el	ecrolyte ba	rium hydroxide is
			" -	4 -	6 17 9			
	a) 0	b)	1	c	2	3.43	d) 3	1411
4.	Which of the follo		be used a	s the halide	component	for frieda	al - craftsre	action?
	a) Chloro benze	ene b)	Bromo b	enzene c) chloroeth	ane	d) isoprop	hyl chloride
5.	Which of the follo						- 1	er grane .
	a) 2 - methyl pe	entane	2 8	b) Citric acid	d		
	c) Glycerold	* 12		d			1210	Redszako *
6.	Which among the	following	alkeneso	n reductive	ozonolysis p	roduce o	nly propan	в?
1.	a) 2 - methyl pr	opene) 2 - methy			
	c) 2,3 - Dimethy) 2,3 - Dim			
7.	Which one of the	followin	g gases ha	s the lowes	t value of H	lenry's la	w contstan	t?
	a) N ₂	b)	He	C	CO,		d) H ₂	
8.	Which of the foll	owing ha	s highest h	nydration er	nergy?			
	a) MgCl,		CaCl ₂		Bacl ₂		d) SrCl ₂	200
9.	Assertion : Gene	rally alka	li and alka	line earth r	netals form	superoxi	des.	
•	Reason: There i	s a single	bond be	tween O an	d O in supe	roxides.		
	a) Both assertion	on and re	ason are t	rue and rea	son is the co	orrect ex	planation o	f assertion
								on of assertion
	c) assertion is t							
	d) Both assertic			1. 5-11				
10					Bull area	्रिक्ट का		
10.	Cyclopentadiene				\ anti ar	omatic	d) alicycli	
	a) aromatic	b)	non - arc) anti-arc	Jillacic	a, ancych	5 X 2 = 10
				PART - B			anu 4 from	
II.	Answer any 5 qu				compulsory.	Answer	any 4 iron	the remaining.
	Why gypsum is r							5
12.	How will you ide	ntify the	unsaturate	d hydrocar	oons?			V/11/Che/1
	1.0							

- 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 - C

5 X 3 =15

- III. Answer any 5 questions. Question number 24 is compulsory. Answer any 4 from the remaining.
- 18. Explain Markovnikov's rulde with an example.
- 19. Define (i) Molarity
- (ii) Normality
- 20. Write Dow's process.
- 21. Explain the effects of pressure on the solubility.
- 22. Give the uses of gypsum.
- 23. Differnetiate Ideal and non ideal solution.
- 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 - D

3 X 5 =15

- IV. Answer all the questions.
- 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)

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

V / 11/ Che / 2