FIRST MID TERM EXAMINATION - 2024

CLASS: 12

CHEMISTRY

Reg.No: 12069

TIME : 1.30 Hrs.

TOTAL MARKS: 50

PART- I

			I WILL I			
1)	Answer all the qu	estions. Choose the	correct answer.	10x1=10		
1.	The metal oxide	which cannot be reduc	ced to metal by carbon	is		
	a) PbO	b) Al ₂ 0 ₃	c) Zn0	d) Fe0		
2.	In froth flotation v	which one of the follow	ing is used as depress	ing agent		
	a) Calcium Carbo		b) Sodium cyanide			
	c) Sodium bicarbo	onate	d) Calcium Chloride			
3.	An aqueous solut a) Neutral	tion of borax is b) Acidic	c) Amphoteric	d) Basic		
4.	Which one of the	following is cyclic silic		A SEA OF THE REAL PROPERTY.		
	a) Thortveitite	b) Spodumene	c) Beryl	d) Olivine		
5.	The ratio of close	packed atoms to tete	rahedral hole in cubic p	packing is		
	a) 1:1	b) 1:2	c) 2:1	d) 1:4		
6.	The vaccant space	ce in fcc latice unit cel	l is			
	a) 48%	b) 23%	c) 32%	d) 26%		
7.	The decomposition of phosphine (PH ₃) on tungsten at low pressure is a first order reaction. It is because the					
	a) Rate is proport	ional to the surface co	verage			
	b) Rate is inversely proportional to the surface coverage					
	c) Rate is indeper	ndent of the surface co	overage			
	d) Rate of decomp	position is slow				
8.			on is $1.54 \times 10^{-3} \text{ S}^{-1}$ the			
9.	a) 450 secondsWhich of the follow tertiary alcohol	b) 45 seconds wing compounds on re	c) 400 seconds eaction with methyl mag	d) 40 seconds nesium bromide will give		
	a) benzaldehyde	b) propanoic acid	c) methyl propanoate	d) Acetaldehyde		
10	HO-CH ₂ -CH ₂ -OH	on heating with period	ic acid gives			
	a) Methanoic acid	b) Glyoxal	c) Methanal	d) CO ₂		
			PART-II			
11.	Answer any fiv	e questions . Q.N.	o. 16 is compulsory	5x2=10		
11.	Which type of ores	s can be concentrated	by froth flotation proces	ss? Give examples .		
	How will you ident					
13.	Why ionic crystals	are hard and brittle?		Marie Control		
14.	Give two examples	s for zero order reaction	n?	THE PARTY OF THE P		
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- 15. Convert Glycol to 1, 4 dioxane
- 16. If the number of close packed sphere is 6. calculate the number of octahedral voids and Tetrahedral voids generated.

PART-III

III) Answer any five Questions. Q.No. 22 is compulsory	5x3=15
17. How Titanium is refined by the Van Arkel method	
18. What is catenation? What are the conditions for catenation?	
19. Explain schottky defect?	
20. Write Arrhenius equation and explain the terms involved	
21. How will you differenciate primary, secondary and tertiary alcohols by luca	as test?
22. Write a note on Kolbe's reaction	
PART-IV	
IV) Answer all the questions	3×5=15
23. a) Explain Zone refining process with an example	(5)
[OR]	
b) i) Write a note on Fischer Tropsch synthesis	(2)
ii) Give the uses of silicones	(3)

b) Derive integrated rate law for first order reaction.	(5)

[OR]

25. a) i)Define unit cell				101
20. a) I) Deline unit cen			THE RESERVE OF THE PARTY OF THE	(2)
				(-)

ii) Derive an equation for half life period of zero order reaction (3)

24. a) What are the difference between crystalline and amorphous solids

[OR]

b)	Write	а	note	on

'\ \ ' ' '	X		
i)Coupling reaction			(2)
,			(4)

ii) Williamsons Synthesis	(1 1/2)
ay a manifestion by introdic	(11/2

iii) Dows process (11/2)

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(3)

(5)