CITY SCHOOL OF EDUCATIONAL INSTITUTE PANDHURNA

OPEN BOOK EXAMINATION 2020-21

CLASS-12TH

SUBJECT :- CHEMISTRY

Time :- 3hr Marks :- 70

Q .1 Choose the o	correct opti	on:		
1. Number of Na at	om present	in the unit cell of NaCl crys	stal is:	(5 MARK)
(a) 1	(b) 2	(c) 3	(d) 4.	
2. Cell constant is :				
(a) A/I	(b) I/A	(c) IA	(d) e l/a	
3. Total type	es of crystal	system are there.		
(a) 6	(b) 7			
(c) 4	(d) 3			
4. Diamond is a.				
(a) Hydrogen bond		(b) Ionic solid		
(c) Covalent solid		(d) Metallic solid		
5.the correct examp	ole of Frenk	el defect is :		
(a) NaCl		(b) CsCl		
(c) Kcl		(d) agCl.		
Q 2 Fill in the blanks:				(5 MARK)
1. Ideal solution ob	eys law			
2. Brass is				
3. Normality is				
4. Solid solution is				
5. Revers osmosis	is			
Q 3 Answer in one	word/sent	ence:		(5 MARK)
1. Write one examp	ole of body o	antered cubic cell.		,
2. From sea weeds	-			
3. Give the name o	f laws which	govern the electrolysis.		
4. write example of		•		
5. Write example of				
or virito oxampio o				
Q 4 Match the following :				(5 MARK)
'A'	· ·	'B'		,
1. Ore of zinc		(a) C6H5SO2CI		
2. Oil of mirbane		(b) Virility		
3. Heinsberg's reac	ent	(c) Nitro benzene		
4. Vitamin E		(d) Fe2O3.3H2O		
5. Limonite		(e) Calamine.		
o. Limonito		(c) Galamine.		
Q 5 :- why is solids	Rigid?			(2 MARK)
•	0	r		,
Why is sky blue in o				
Q 6 :- what is Dopir	_	_		(2 MARK)
What are molecula	0 1 1 eolide2	Γ		
Q 7 :- what is unit c				(2 MARK)
	Ωr			(= u u u)

What is effective atomic number?

Q 8 :- Explain Frenkel defect? What do you mean by metal excess defect? Or	(2MARK)
Q 9. What is rate of reaction ? describe any two factors affecting rate of reaction. Or	(4 MARK)
What is defect in crystals ?explain with example. Q 10. Explain electric characteristics in solid. Or	(4 MARK)
Explain briefly the packing in solid ? Q 11. What is molarity and molality? Or	(4 MARK)
What is vapour pressure of solution? Q.12. What do mean by Van't Hoff's Factor? Or	(4 MARK)
Explain the roult's Law? Q 13.Explain Berkley Hartley process? Or	(4 MARK)
Explain electrochemical cell? Q 14. What is Kohlrausch's law ? Explain any two applications of Kohlrausch's Law. Or	(4 MARK)
Explain corrosion on the basis of following points: (i) Definition, (ii) Factors affecting (any two), (iii) prevention of corrosion (any or	two).
Q 15 What are standard oxidation and reduction potential?	(4MARK)
Or Write the name and structure of any five oxy acids of Sulphur. Q 16. Explain the following: (i) Nernst equation. (ii) Corrosion. Or Write notes on:	(4 MARK)
(i) Fule cell (ii) Dry cell Q 17. What is Raoult's Law? Write any four differences between Ideal and non-ideal so Or	olutions.
What is Osmotic pressure ? Draw a labelled diagram of Berkeley – Hartley metho determination of osmotic pressure. Q 18. What are transition elements ? Write any four characteristic properties of transition.	(5 MARK)
O Explain Faraday's laws of electrolysis in detail?	(5MARK)