## Guna matric higher secondary school

	Date : 24/09/2020			Mathur-2020				Time	: : 2.00h		
				XII-cl	XII-chemistry					k : 70	
I Cho	ose the corre	ct answer							15 x 1	= 15	
1. Which of the metal is extracted by Hall- Heroult process?											
	a) Al	b) Ni	c) Cu	d) Zı	n					X	
2. Th	e metal oxide	which ca	nnot be	reduced to	o me	tal by ca	arbon i	s	10	7)	
	a) PbO b	) Al2O3	c) ZnC	d) Fe0	)						
3. Wc	olframite ore is	s separate	ed from t	tinstone by	y the	proces	s of	<b>*</b>			
	a) Smelting	b) Calcin	ation	c)Roastir	ng	d) Elect	ro ma	gnetic se	eparation		
4. Electrochemical process is used to extract											
	a) Fe	b) Pb	C	e) Na	d)	Ag	70				
5. Wh	nich one of the	e following	j ores is	best conc	entr	ated by	froth- 1	floatatio	n method	?	
	a) Magnetite	b) Hae	matite	c) Galer	na	d) Cass	iterite				
6. Ext	traction of gol	d and silve	er involv	es leachin	ıg wi	th cyani	de ion	silver is	later reco	overed by	
	a) Distillation	n b) Zon	e refinig	c) Disp	lace	ment wi	th Zn	d) Liqu	ation		
7. Which of the following is used for concentrating ore in metallurgy?											
	a) Leaching	b) Roas	sting	c) Froth	floa	atation	d) Bot	th a and	b		
8. Oxidation state of carbon in its hydride?											
	a) +4	b) -4	c)	+3	d) +	2					
9. An	aqueous solu	ıtion of bo	rax is								
	a) Neutral	b) Acid	lic c	e) Basic	d)	Amphot	eric				
10. Which among the following is not a borane?											
	a) B2H6	b) B3H	6 (	c) B4H10	d)	None of	these				
11. T	he element th	at does no	ot show	catention	amo	ng the f	ollowir	ng P- blo	ck eleme	nt is	

a) Carbon fullerene with formula	•	c) Lead	d) Germanium	12.Carbon atom in						
a) SP3 hybridized b) SP hybridized c) SP2 hybridized										
d) Partially S	d) Partially Sp2 and Sp3 hybridized									
13. Duralumin is an a	alloy of?									
a) Cu, Mn	b) Cu, Al, Mg	c) Al, Mn	d) Al, Cu, M	n, Mg						
14. The stability of +1 oxidation state increase in the sequence										
a) Al <ga<in<t< td=""><td>T b) TI<in<g< td=""><td>a<al c)="" ln<tl<<="" td=""><td>Ga<al d)="" ga<in<<="" td=""><td>Al<ti< td=""></ti<></td></al></td></al></td></in<g<></td></ga<in<t<>	T b) TI <in<g< td=""><td>a<al c)="" ln<tl<<="" td=""><td>Ga<al d)="" ga<in<<="" td=""><td>Al<ti< td=""></ti<></td></al></td></al></td></in<g<>	a <al c)="" ln<tl<<="" td=""><td>Ga<al d)="" ga<in<<="" td=""><td>Al<ti< td=""></ti<></td></al></td></al>	Ga <al d)="" ga<in<<="" td=""><td>Al<ti< td=""></ti<></td></al>	Al <ti< td=""></ti<>						
15. Which of the following is not Sp2 hybridized?										
a) Graphite	b) Graphe	ene c) Fulle	rene d) Dry i	ce						
II. Answer the following	ng question any	six ,		6 x 2 = 12						
16. Give the uses of silicone any two point.										
17. Complete the following equation.										
i) HCOOH + H2SO4> ?										
ii) B + NaOH	> ?									
18. Give one example for each i) Icosogen ii) Tetragen iii) Chalcogen										
19. How will you convert boric acid to boron nitride?										
20. Write the preparation of carbon monoxide?										
21. What are the differences between minerals and ores?										
22. Explain the following terms with suitable example										
i) Gangue ii)	Slag									
23. Write the uses of	copper any two	point?								
24. Write lead import	ant ore with mo	olecular formula	?							
III. Answer the followi	ng question an	y six		6 x 3 = 18						
25. Describe the mag	netic separatio	n with example.								
26. Write the following	g reduction of r	netal oxide								

- i) Reduction of carbon ii) Reduction of hydrogen iii) Reduction of metal.
- 27. Write notes on electrolytic refining process?
- 28. Give the uses of Zinc?
- 29. Give the basic requirement for vapour phase refining?
- 30. Write the preparation of borax?
- 31. Write the uses of boron any three point?
- 32. Write the preparation of boric acid?
- 33. Write any three properties of diborane?
- IV. Answer the following question write any five

 $5 \times 5 = 25$ 

- 34. i) Give the structure of CO and CO2
  - , ii) write a short note on hydroboration
- 35. i nwrite a note on zeolites
  - ii) CO is a reducing agent justify with an example
- 36. i) A hydride of 2nd period alkali metal (A) on reaction with compound of boron (B) to give a reducing agent (C) identify A, B, and C
  - ii) A double salt which contains fourth period alkali metal (A) on heating at 500k gives (B) aqueous solution of (B) gives white precipitate with BaCl2 and gives a red colour compound with alizarin.identify A and B
- 37. Complete the following reaction

38 i). What is catenation? Describe briefly the catenation property of carbon

- ii) Write a note on fisher tropsch synthesis
- 39. Describe the role of the following in the process mentioned
  - i) Silica in the extraction of aluminium
  - ii) cryolite in the extraction of aluminium
  - iii) lodine in the refining of zirconium
  - iv) Sodium cyanide in froth floatation
- 40. i) Give the limitations of Ellingham diagram.
  - ii) Explain zone refining process with an example.

------All the best -----