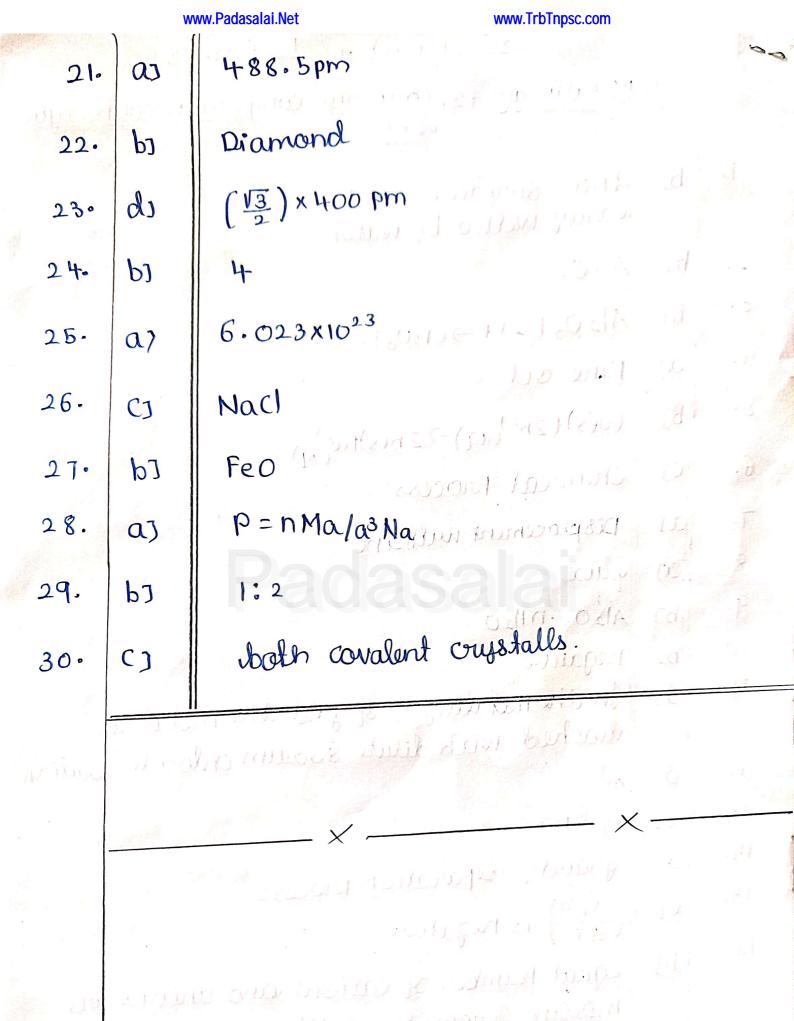
STD: XII	RK TEST – 1 Lesson: 1 & 6
riarks: 30 / Tr	IISTRY
1. In the froth floatation process for the purification of o	res, the particles float because
a) they are light	b) their surface is not easily wetted by water
	d) they are insoluble
2. The metal oxide which cannot be reduced to metal by	
a) PbO b) Al <sub>2</sub> O <sub>3</sub>	c) ZnO d) FeO
3. Which of the following reduction is not thermodynan	nically feasible?
	b) $\Lambda l_2 O_3 + 2Cr \rightarrow Cr_2 O_3 + 2\Lambda l$
e) $3\text{Ti}O_2 + 4\text{Al} \rightarrow 2 \text{ Al}_2O_3 + 3\text{Ti}$	d) none of these
4. Frothing agent used in froth floatation process is	
a) pine oil b) olive oil	c) mustard oil d) neem oil
5. Which one of the following is not feasible	The second secon
a) $Zn(s) + Cu^{2+}(aq) \rightarrow cu(s) + Zn^{2+}(aq)$	b) $Cu(s) + Zn^{2+}(aq) \longrightarrow Zn(s) + Cu^{2+}(aq)$
c) $Cu(s) + 2Ag^{+}(aq) \rightarrow 2Ag(s) + Cu^{2+}(aq)$	d) $Fe(s) + Cu^{2+}(aq) \rightarrow Cu(s) + Fe^{2+}(aq)$
6. Leaching is also called as	
a) hand picking	b) Electrolysis
c) Chemical process	d) magnetic separation process
7. Extraction of gold and silver involves leaching with	cyanide ion. silver is later recovered by
a) Distillation b) Zone refining	c) Displacement with zinc d) liquation
8. A chemical substance that forms an easily fusible sl	ag with gangue is called as
a) flux b) pure metal	c) ore d) impure metal
9. Bauxite has the composition	
a) Al <sub>2</sub> O <sub>3</sub> b) Al <sub>2</sub> O <sub>3</sub> . nH <sub>2</sub> O	c) Fe <sub>2</sub> O <sub>3</sub> 2H <sub>2</sub> O d) None of these
10. For spontaneous reaction, the change in free energ	y should be
a) positive b) negative	c) zero d) neutral
11. The incorrect statement among the following is	Section 1. Section 2.
a) Nickel is refined by Mond's process	b) Titanium is refined by Van Arkel's process
c) Zinc blende is concentrated by froth floatation	n
d) In the metallurgy of gold, the metal is leache	
12. Which of the following is not purified by zone re-	
	c) Ga d) Al
a) Ge b) Si  13. Which one of the following ores is best concentration.	
- Parking of	
a) Magnetite b) Haematic	c) Galella u) Cassiterite
14. Haematite and tin stone are purified by	
a) gravity separation process	b) magnetic separation process
c) froth floatation process	d) handpicking

15. In the Ellingham diagram, for the formation	of carbon monoxid	le
a) $\left(\frac{1}{2}\right)$ is $\frac{1}{2}$	(0)	
$(\Delta T)$ is negative b) $(\Delta C^{\circ})$	$\left(\frac{G^{\circ}}{T}\right)$ is positive	$G_{\alpha} = G_{\alpha} = G_{\alpha} = G_{\alpha}$ is negative
c) $\left(\frac{\Delta G^{\circ}}{\Delta T}\right)$ is negative d) init	tially $\left(\frac{\Delta T}{\Delta G^{\circ}}\right)$ is positi	ive, after 700° C, $\left(\frac{\Delta G^{\circ}}{\Delta T}\right)$ is negative
16. Schottky defect in a crystal is observed when	(Ido)	
a) unequal number of anions and cations at	i 	lattice
b) equal number of cations and anions are	re missing from the la	ttice
c) an ion leaves its page 1	missing from the fat	d) no ion is missing from its la
c) an ion leaves its normal site and occupie 17. Silicon carbide is an example of	s an interstitial site	
a) Ionic solid	is a start	
c) Polar molecular solid	b) Covalent	
18. If 'a' is the length of the state of	d) Non – pol	ar molecular solid
18. If 'a' is the length of the side of the cube, the	distance between th	e body centered atom and one comer and
in the cube will be a) $\left(\frac{2}{\sqrt{3}}\right)a$	b) $\left(\frac{4}{\sqrt{3}}\right)a$	c) $\left(\frac{\sqrt{3}}{4}\right)a$ d) $\left(\frac{\sqrt{3}}{2}\right)a$
19. Molecular solids contains neutral molecules he	eld together by	
a) strong conesive forces b) weak vanderway	als forces c) weak in	onic forces d) strong electrostatic forces
20. Which is the coordination number in both hcp	and con arrangemen	ats?
b) 6	c) 4	d) 8
21. The radius of an atom is 300pm, if it crystallize	es in a face centered	cubic lattice, the length of the edge of
a) 488.5pm	b) 848.5pm	c) 884.5pm d) 484.5pm
22. Which one of the following is a covalent crysta	1?	
a) Glass b) Diamond	c) Anthracene	d) Glucose
23. CsCl has bcc arrangement, its unit cell edge len	gth is 400pm, its inte	er atomic distance is
a) 400pm b) 800pm		d) $\left(\frac{\sqrt{3}}{2}\right) \times 400 \text{pm}$
24. The number of atoms belongs to fcc unit cell is		=) ( <sub>2</sub> ) 100pm
a) 2 b) 4	c) 6	d) 12
25. The number of unit cells in 8 gm of an element 2		which crystallizes in hec pottern is
(N <sub>A</sub> is the Avogadro number) a) 6.023 X 10 <sup>23</sup>	b) 6.023 X 10 <sup>22</sup>	
26. Which one of the following is an ionic crystal?	2, 313 2 2 2 2 3	c) $60.23 \times 10^{23}$ d) $\left(\frac{6.023 \times 10^{23}}{8 \times 40}\right)$
a) Glass b) Rubber	c) NaCl	d) SiO <sub>2</sub>
27. The crystal with a metal deficiency defect is	o) Theor	u).51O <sub>2</sub>
a) NaCl b) FeO	c) ZnO	d) KCI
28. Which one of the following formula is used to cal	culate the density of	
a) $\rho = nM/a^3N_A$ b) $\rho = a^3N_A/nM$	c) $\rho = N_A a^3 n/M$	d) $\rho = a^3 N_{AR}$
29. The ratio of close packed atoms to tetrahedral hole	e in cubic packing is	
a) 1:1 b) 1:2	c) 2:1	d) 1:4
30. Graphite and diamond are a) Covalent and molec	ular crystals	b) ionic and covalent crystals
c) both covalent crystals		d) both molecular crystals

		www.Padasalai.Net LOSSON & 6	
		1. Metallurgy, 12, Carbonyl Compounds corboxylic	
1.	bj	their Surface is not easily welled by water	
2.	bj	Al2O3	
3.	bJ		
4.		Al203+2Cr->Cr203+2Al	
5.	aj	Pine oil	
ی.	p]	(u(s)+Zn2+(aq)->Zn(s)+(u2+	
6.	CJ	Chemical Process	
7.	aj	Displacement well zinc	
8.	cy	flux	
9.	67	Al203. nH20	
10.	Ы	negative visit visit it is	
11.	ds	In the metallugrus of gold, the metal is blacked with dilute Scidium chloride Solution	
		leached with dilute Scidium chloride solution	
12.	di	Al	
13 -	Cı	Galena	
140	a)	gravily separation process	
15.	Cj	$\left(\frac{\Delta G^{\circ}}{\Delta T^{\circ}}\right)$ is negative	
16.	bJ	equal number of cations and anions are	
		equal number of cations and anions are missing from the lattic	
17.	bJ	countent scalid	
18.	ds	R. PRAKASH,M.Sc.,B.Ed.,D.T.Ed.,  R. G. Asst. in Chemistry  Shri Maruthi Matric.Hr.Sec.Sepagat  V. Madepalli-X-Road-635 121	
19.	ы	weak vanderwaals force Krishnegiri-Dist.	
20.	aj	12	
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