Metalloid among the following is

Colour is imported to glass by mixing

(c) Oxides of non-metal (d) Coloured salt

Plumbosolvancy implies dissolution of lead in

(a) Si

(c) Pb

(a) Bases

(a) Crook's

(c) Safety

(a)  $SiF_{4}$ 

(c)  $H_2SiO_3$ 

(a) Na<sub>2</sub>CO<sub>3</sub>(c) H - COONa

(a) Synthetic dyes

(c) Ordinary water

**9.** Glass reacts with *HF* to produce

(b) C

(d) Ge

(b) Metal oxide

(b) Acids

(b) Jena

(d) Pyrex

(b)  $H_2SiF_6$ 

(d)  $Na_3AlF_6$ 

(b) NaHCO<sub>3</sub>

(d) CH<sub>3</sub>COONa

10. When carbon monoxide is passed over solid caustic soda heated to  $200^{\circ}$  C, it forms

(d)  $CuSO_4$  sol

Which of the following glass is used in making wind screen of automobiles

(b) Copper sulphate

20. Lapis lazuli is

(a) Ferrous sulphate

	(c)	Sodium alumino silic	ate	(d)	Zinc sulphate		
21.	Whe	n tin is treated with co	ncei	ntrated ni	tric acid		
	(a)	(a) It is converted into stannous nitrate					
	(b)	(b) It is converted into stannic nitrate					
	(c)	It is converted into metastannic acid					
	(d)	It becomes passive					
22.	A metal used in storage batteries is						
		Copper		Lead			
	(c)	Tin	(d)	Nickel			
23.	Red i	lead is					
		$Pb_3O_4$	(b)	PbO			
		$PbO_2$	(d)	$Pb_4O_3$			
24	Land		.: .1.1	1			
<i>2</i> 4.		I pipes are corroded qu Dil. $H_2SO_4$		y by Conc. <i>H</i>	. 50		
		- '			2504		
	(c)	Acetic acid	(a)	Water			
25.	Litha	arge is chemically					
		PbO	(b)	$PbO_2$			
	(c)	$Pb_3O_4$	(d)	Pb(CH <sub>3</sub> C	COO) <sub>2</sub>		
26.	Type metal is an alloy of $Pb$ , $Sb$ and $Sn$ . It consists of						
		(a) Equal amounts of the three metals					
		(b) More amount of lead					
	` ′	(c) More amount of antimony					
		More amount of tin	11011	y			
	(u)	Wore amount of thi					
27.	Suga	r of lead is					
	(a)	$2PbSO_4.PbO$	(b)	$(CH_3COC$	$(O)_2 Pb$		
	(c)	$PbCO_3$	(d)	$PbCO_3.F$	$Pb(OH)_2$		
28.	Which of the following compounds has peroxide linkage						
		$Pb_2O_3$	_	$SiO_2$			
	(c)	$CO_2$	(d)	$PbO_2$			
29	Red	lead in an example of	a/an	oxide			
		Basic		Super			
		Mixed		Amphoto	eric		
30.	Whi	ch of the following ele	men	it is a met	alloid		
200	(a)		(b)				
		Ge	(d)				

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- **1.** (c)
- **2.** (d)
- **3.** (d)
- **4.** (c)
- **5.** (d) C and Si are non-metal and Pb is a metal.
- **6.** (b) Metal oxides or some salts are fused with glass to imported colour of glass.
  - **7.** (c)
- **8.** (c)
- **9.** (a)
- **10.** (c)  $Co + NaOH \xrightarrow{200 \circ C} HCOONa$  Sod. formate
- **11.** (A)
- **12.** (D)
- 13. (d) It is hydrolysed with water to form a  $Si(OH)_{4}$ .
- **14.** (b)
- **15.** (b) Grey tin is very brittle and easily crumbles down to a powder in very cold climates.

The change of white tin to grey tin is accompanied by increase in volume. This is called tin disease or tin plague.

- **16.** (b) Zeolite have  $SiO_4$  and  $AlO_4$  tetrahedrons linked together in a three dimensional open structure in which four or six membered ring predominate. Due to open chain structure they have cavities and can take up water and other small molecules.
- 17. (b) Crook's glass is a special type of glass containing cerium oxide. It does not allow the passage of ultra violet ray and is used for making lenses.
- **18.** (a) Carbon suboxide has linear structure with C-C bond length equal to 130  $\mathring{A}$  and C-O bond length equal to 120  $\mathring{A}$ .

$$O = C = C = C = O \Leftrightarrow O^{-} - C \equiv C - C \equiv O^{+}$$

- **19.** (c)  $Pb_3O_4$  is a mixed oxide. It can be represented as  $2PbO-PbO_2$ .
- **20.** (c) Lapis Lazuli is a rock composed mainly of the following mineral, lazurite, hauynite sodalite, nosean, calcite, pyrite, lapis lazuli is actually sulphur containing, sodium aluminium silicate having chemical composition  $3Na_2O.3Al_2.6SiO_2.2Na_2S$ .
- 21. (c) Tin is oxidised to meta stannic acid when it is treated with nitric acid.

$$Sn + 4HNO_3 \rightarrow H_2SnO_3 + 4NO_2 + H_2O_3$$

- **22.** (b)
- **23.** (a)  $Pb_3O_4 \Rightarrow \text{Red lead (Sindhur)}$
- 24. (c) Organic acids dissolve lead in presence of oxygen

$$Pb + 2CH_3COOH + \frac{1}{2}O_2 \rightarrow Pb(CH_3COO)_2 + H_2O$$

**25.** (A)