HIGHER SECONDARY SECOND YEAR CHEMISTRY

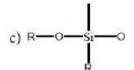


Cl	noose the correct a	inswer:						
1.	An aqueous solution of borax is							
	a) neutral	b) acidic	c) basic	d) amphoteric				
2.	Boric acid is an acid because its molecule (NEET)							
	a) contains replaceable H+ ion							
	b) gives up a proton							
	c) combines with proton to form water molecule							
	d) accepts OH from water, releasing proton.							
3.	Which among the following is not a borane?							
	a) B ₂ H ₆	b) B ₃ H ₆	c) B ₄ H ₁₀	d) none of these				
4.	Which of the following metals has the largest abundance in the earth's crust?							
	a) Aluminium	b) calcium	c) Magnesium	d) sodium				
5.	In diborane, the number of electrons that accounts for banana bonds is							
	a) six	b) two	c) four	d) three				
5.	The element that does not show catenation among the following p-block elements is							
	a) Carbon	b) silicon	c) Lead	d) germanium				
	Carbon atoms in fullerene with formula C ₆₀ have							
	a) sp³ hybridised		b) sp hybridised					
	c) sp ² hybridised d) partially sp ² and partially sp ³ hybrid							
3.	Oxidation state of carbon in its hydrides							
	a) +4	b) -4	c) +3	d) +2				



- 9. The basic structural unit of silicates is (NEET)
 - a) (SiO₃)2-

- b) $\left(\mathrm{SiO_4}\right)^{2-}$ c) $\left(\mathrm{SiO}\right)^{-}$ d) $\left(\mathrm{SiO_4}\right)^{4-}$
- 10. The repeating unit in silicone is
 - a) SiO,



- 11. Which of these is not a monomer for a high molecular mass silicone polymer?
 - a) Me, SiCl
- b) PhSiCl,
- c) MeSiCl,
- d) Me,SiCl,
- 12. Which of the following is not sp2 hybridised?
 - a) Graphite
- b) graphene
- c) Fullerene
- d) dry ice
- 13. The geometry at which carbon atom in diamond are bonded to each other is
 - a) Tetrahedral
- b) hexagonal
- c) Octahedral
- d) none of these
- 14. Which of the following statements is not correct?
 - a) Beryl is a cyclic silicate
 - b) Mg2SiO4 is an orthosilicate
 - c) SiO4 is the basic structural unit of silicates
 - d) Feldspar is not aluminosilicate
- 15. Match items in column I with the items of column II and assign the correct code.

(Column-I	Column-II		
A	Borazole	1	B(OH) ₃	
В	Boric acid	2	$B_3N_3H_6$	
С	Quartz	3	Na ₂ [B ₄ O ₅ (OH) ₄] 8H ₂ O	
D	Borax	4	SiO ₂	

	Α	В	С	D		
(a)	2	1	4	3		
(b)	1	2	4	3		
(c)	1	2	4	3		
(d)	d) None of these					

- 16. Duralumin is an alloy of
 - a) Cu,Mn
- b) Cu, Al, Mg
- c) Al, Mn
- d) Al, Cu, Mn, Mg

17. The compound that is used in nuclear reactors as protective shields and control rods is

- a) Metal borides
- b) metal oxides c) Metal carbonates d) metal carbide

18. The stability of +1 oxidation state increases in the sequence

- a) Al < Ga < In < Tl
- b) Tl < In < Ga < Al
- c) In < Tl < Ga < Al
- d) Ga< In < Al < Tl

