QB365 Question Bank Software Study Materials

p - Block Elements - I 50 Important 1 Marks Questions With Answers (Book Back and Creative)

12th Standard

Chemistry

Total Marks: 50

Mul	ltiple Choice Question	
1)	An aqueous solution of borax is	50 x 1 = 50
	(a) neutral (b) acidic (c) basic (d) amphoteric	
2)		
<i>-</i> 4)	Boric acid is an acid because its molecule	
	(a) contains replaceable H ⁺ ion (b) gives up a proton (c) combines with proton to form water molecule	
3)	(d) accepts OH from water, releasing proton.	
,	Which among the following is not a borane?	
4)	(a) B_2H_6 (b) B_3H_6 (c) B_4H_{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	
6)	The element that does not show catenation among the following p-block elements is	
	(a) Carbon (b) silicon (c) Lead (d) germanium	
7)	Carbon atoms in fullerene with formula C_{60} havehybridisation.	
	(a) sp^3 hybridised (b) sp hybridised (c) sp^2 hybridised (d) partially sp^2 and partially sp^3 hybridised	
8)	Oxidation state of carbon in its hydrides	
	(a) +4 (b) -4 (c) +3 (d) +2	
9)	The basic structural unit of silicates is	
	(a) $(SiO_3)^{2-}$ (b) $(SiO_4)^{2-}$ (c) $(Sio)^-$ (d) $(SiO_4)^{4-}$	
10)	The repeating unit in silicone is	
	(a) SiO_2 (b) \longrightarrow Si (c) R (c) R (d) \longrightarrow R	
11)	Which of these is not a monomer for a high molecular mass silicone polymer?	
	(a) Me_3SiC1 (b) $PhSiCl_3$ (c) $MeSiCl_3$ (d) Me_2SiCl_2	
12)	Which of the following is not sp^2 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	

28)	AlF ₃ is soluble in HF only in the presence of KE. It is due to the formation of
	(a) $K_3 \left[AlF_3 H_3 \right]$ (b) $K_3 \left[AlF_6 \right]$ (c) AIH_3 (d) $K_3 \left[AIFH \right]$
29)	The semi conducting nature of elements such as & made a revolutionary change in the field of modern electronics.
	(a) Si & Ge (b) Ge & Ga (c) Si & Ga (d) None
30)	The general electronic configuration of p-block element is
	(a) ns^2np^{1-6} (b) ns^0np^{0-6} (c) ns^2np^{0-6} (d) ns^2np^7
31)	Which is a metalled?
	(a) B (b) Be (c) S (d) C
32)	In heavier post transition metals, the outer s-electrons (ns) have a tendency to remain inert and show reluctance to take part in the bonding which is known as
	(a) inert gases (b) inert pair effect (c) catenation (d) none of these
33)	Inert pair effect is observed in groups
	(a) 14, 15 (b) 13, 14, 15 (c) 13, 14, 15, 16 (d) All of these
34)	Kernite is
	(a) $Na_2[B_2O_6,(OH)_3]2H_2O$ (b) $AlO_3.8H_2O$ (c) $Na_2[B_4O_5(OH)_4].8H_2O$ (d) $Na_2[B_4O_5(OH)_4].2H_2O$
35)	Boron reacts with oxidising acids such as H ₂ SO ₄ , & HNO ₃ and forms
	(a) diborane (b) borates (c) borides (d) boric acid
36)	Borax glass is
	(a) $Na_2B_4O_7.5H_2O$ (b) $B_2O_3.NaBO_2$ (c) $Na_2B_4O_7$ (d) H_3BO_3
37)	Which is used to identify colored metal ions?
	(a) Boric acid (b) Borides (c) Borates (d) Borax
38)	Boric acid consists of this unit
	(a) $[BO_3]^{2-}$ (b) $[B_2O_3]^{+1}$ (c) $[BO_3]^{3-}$ (d) $[B_2O_5]^{2-}$
39)	Which is used as an antiseptic and an eye lotion?
	(a) Boric acid (b) Borax (c) Borate (d) None
40)	The valence electrons of diborane is
	(a) 5 (b) 6 (c) 12 (d) 18
41)	It is used in welding torches
	(a) Boric acid (b) Borax (c) Diborane (d) Ethyl borate
42)	The C ₆₀ molecule is called as because of its structure.
	(a) buck minster fullerens (b) bucky balls (c) diamond (d) both (a) & (b)
43)	Which one is phosgene?
	(a) $COCl.5H_2O$ (b) $COCl_3$ (c) $COCl_2$ (d) $CaCl_2$
44)	Calcination of lime produces this as by product
	(a) CO ₂ (b) CO (c) Ca (d) C
45)	Biologically CO_2 is important for

28)

(a)	chlorophyll (b) photo synthesis (c) atmosphere (d) none
46)	The mineral which contains silicon and oxygen in tetrahedral $[SiO_4]^4$ units linked together in different pattern are called
	(a) silicones (b) silicates (c) silanes (d) none
47)	Olivine is
	(a) Be_2SiO_4 (b) $Be_3Al_2[SiO_3]_6$ (c) $(Fe/Mg)_2SiO_4$ (d) $LiAl(SiO_3)_2$
48)	$\left[\mathrm{Si}_{4}\mathrm{O}_{11} ight]_{\mathrm{n}}^{6\mathrm{n}-}$ ions are
	(a) double chain silicates (b) pyoxenes (c) amphiboles (d) both (a) & (c)
49)	are fibrous and non-combustible silicates
	(a) Asbestos (b) Amphiboles (c) Zeolites (d) Inosilicate
50)	The affinity of Boron-10 for neutrons is the basis of a technique known as
	(a) BECT (b) BNCT (c) BOCC (d) EDTA