

PPSC Chemistry Full Book Test

Sr	Questions	Answers Choice
1	Which of the following statement is not true for carbon.	A. Its forms compounds with multiple bonds B. Its ionization energy is very high C. It undergoes catanation D. It shows inert pair effect
2	The most stable oxidation state shown by lead is.	A. +2 , +4 B. +2 only C. +3 , +4 D. +4 only
3	Inert pair effect is best shown by	A. Si B. Z C. Sn D. Pb
4	Which of the ionic possesses highest bond energy.	A. C-C B. Si -Si C. Ge - Ge D. Sn -Sn
5	The metallic character of group 14 elements	A. Decreases from top to bottom B. Increases from top to bottom C. Does not change gradually D. Has no significance
6	Catenation is a process of.	A. Formaton of cations B. Deposition of cations C. Formation of long chain of identical atoms D. Formation of covalent bond
7	Elements of group 14	A. Exhibit oxidation state of -4 B. Exhibit oxidation state of +4 C. Form M3+ and M4+ ions D. Form M4- and M4+ iona
8	Elements of group 14 have the electronic configuration of their outer shell as	A. ns2 np3 B. ns2 np2 C. ns2 np6 D. ns2
9	Which of the following compounds would be most ionic to charcter.	A. PbCl4 B. PbCl2 C. SnCl4 D. SnCl2
10	Which of tetra chloride is resistant to hydrolysis.	A. CCl4 B. SiCl4 C. GeCl4 D. SnCl4
11	Pick out the incorrect statement	A. The geometry around 'N' atom in trimethylamine is pyramidal B. The geometry around N atom in trisilylamine is planar C. The nitrogen atom in trimethylamine is sp2 hybridized whilst in trisilylamine it is sp2 hybridized D. Trisilylamine has donor properties whilst trimethylamine has no donor properties.
12	Which among the following is a false statement.	A. SiO2 has a structure similar to that of CO2 B. Natural Si exists only in the combined state C. Si can be prepared by reducing SiO2 with Mg D. Si does not exist in graphite like structure, but exists only in diamond like structure.
13	Which of the following carbides reacts with H2O to form propane.	A. Al4C3 B. CaC2 C. SiC

		C. SiC ₂ D. SiC
14	Graphite is a good conductor of electricity because is.	A. Has sp ² hybridized carbon atoms B. Has free electrons C. Is crystalline D. Has free atoms
15	The nature of bonds in compounds of carbon and silicon is mostly	A. Covalent B. Electrovalent C. Metallic D. Both A and B
16	A general trend in the properties of elements of carbon family shows that with increase in atomic number.	A. The tendency towards concatenation increases B. The tendency to show +2 oxidation state increase C. Metallic character decreases D. The tendency to form complexes with valency higher than four decreases.
17	Glass obtained by placing a layer of butyral plastic with a suitable adhesive between two layers of glass and cementing them by heat and pressure is called.	A. Glass wool B. Safety glass C. Optical glass D. Jena glass
18	Any substance which has solidified from the liquid state with crystallization is known as	A. Steel B. Fibre C. Glass D. Asbestos
19	Setting of cement is improved by	A. Lime stone B. Clay C. Gypsum D. Water
20	In manufacturing of cement crystallization of amorphous dehydration products of clay	A. 500 °C to 800 °C B. 900 °C to 1200 °C C. 1250 °C to 1400 °C D. 1000 to 1100 °C
21	In average composition of a good sample of cement the percentage of silica is.	A. 18.5% B. 20.5% C. 22.5% D. 24.5%
22	Sodium silicate is used	A. In the paint industry B. For fixing labels to glass C. In a soap industry D. All above
23	Sodium silicate is used	A. In fire proofing of wood and textiles B. As a preservative of eggs C. As a furniture polish D. All above
24	Is a chain silicate	A. Olivine B. Tremolite C. Beryl D. Zeolite
25	Hemimorphite is an example of.	A. Orthosilicate B. Pyrosilicate C. Cyclic silicate D. Meta silicate
26	Are used as water repellents	A. Carbides B. Silicon C. Silicones D. Silicates
27	Carbides because of their hardness are	A. Ionic carbides B. Interstitial carbides C. covalent carbides D. Any of above
28	Types of carbides	A. Ionic carbides B. Covalent carbides C. Interstitial carbides D. All above
29	The rising world temperature will have serious effect on.	A. Agriculture B. Animal production C. Human being D. All above

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During the last two centuries, the atmospheric CO₂ contents are increased by

- A. 15%
- B. 25%
- C. 35%
- D. 50%