

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The treatment of benzene with isobutene in the presence of sulphuric acid give	A. Isobutyl benzene B. Tert-Butyl benzene C. n-Butyl benzene D. no reaction
2	The spectrum of helium is expected to be similar to that of	A. H B. Li ⁺ C. Na D. He ⁺
3	The structure of XeF ₆	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
4	Salol is prepared from	A. Salicylic acid and phenol B. Salicylic acid and methyl alcohol C. Both D. None
5	Which of the following geometry is associated with the compound in which the central atom assumes sp ³ d hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal
6	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
7	The number of electrons in the M shell of the element with number 24 is	A. 24 B. 12 C. 13 D. 8
8	Reaction of ethylamine with chloroform in alcoholic KOH produces	A. CH ₃ OH B. CH ₃ NC C. C ₂ H ₅ NC D. C ₂ H ₅ CH ₂ NC
9	Gooch crucible is used for the filtration of precipitates having	A. High solubility B. High concentration C. High ignition temperature D. Low temperature
10	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution
11	The number of unpaired electrons in the P-subshell of oxygen atom	A. 1 B. 2 C. 3 D. 4
12	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R ₂ O ₃ D. It forms RX ₂
13	Reaction of acids with alcohols is also known as	A. Esterification B. Saponification C. Alkalization D. None
14	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
15	Among the alkaline earth metals the element forming predominantly covalent compounds is	A. Be B. Mg C. Sr D. Ca

16 The alkali metal which is liquid at 15°C is
A. K
B. Cs
C. Na
D. None

17 The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and - 71030 cal mol⁻¹ respectively what will be heat of conversion of rhombic sulphur to monoclinic?
A. 70960 calories
B. 71030 calories
C. -70 calories
D. +70 calories

18 Gooch crucible used to filter the solution of
A. H_2SO_4
B. HCl
C. $KMnO_4$
D. Both B & C

19 Which one of the halogen acid is a liquid?
A. HF
B. HCl
C. HBr
D. HI

20 For most of the chemical reaction the rate of reaction
A. Increases as the reaction proceeds
B. Decreases as the reaction proceeds
C. May increases or decreases during the reaction
D. Remains constant as the reaction