

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019  
(Second Semester)

Branch - CHEMISTRY

GENERAL CHEMISTRY - II

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 The least reactive of alkali metal is \_\_\_\_\_  
 (i) Sodium (ii) Potassium  
 (iii) Cesium (iv) Lithium
- 2 Among noble gas and \_\_\_\_\_ are most volatile in nature.  
 (i) He and Ne (ii) He and N<sub>2</sub>  
 (iii) He and Ar (iv) He and Kr
- 3 For exothermic reaction ΔH has \_\_\_\_\_ value.  
 (i) Positive (ii) Negative  
 (iii) Zero (iv) Constant
- 4 The thermo chemical equation may be \_\_\_\_\_.  
 (i) Multiplied (ii) Added  
 (iii) Substrated (iv) All the above
- 5 The Co-ordination number of Na<sup>+</sup> ion in NaCl crystal is \_\_\_\_\_  
 (i) 2 (ii) 4  
 (iii) 6 (iv) 8
- 6 The Bragg's equation for diffraction of X-ray is \_\_\_\_\_  
 (i)  $n\lambda = 2d \sin \theta$  (ii)  $n\lambda = 2d \sin \theta$   
 (iii)  $n\lambda = 2d \sin \theta$  (iv)  $n\lambda = d \sin \theta$
- 7 Ethylene react with HI to give \_\_\_\_\_  
 (i) Iodo ethane (ii) 2,2- iodo ethane  
 (iii) 1,1 -di iodo ethane (iv) All the above
- 8 Conjugated diene contains.  
 (i) Only two double bond  
 (ii) Two double bonds connected to the same carbon atom  
 (iii) Alternating single and double bonds  
 (iv) double bond at any two position
- 9 The carbon atoms in a benzene ring are  
 (i) Sp hybridized (ii) Sp<sup>3</sup> hybridized  
 (iii) Sp<sup>2</sup> hybridized (iv) Sp<sup>2d</sup> hybridized  
 \_\_\_\_\_ is example for anti aromatic compound.  
 (i) Cyclo butane (ii) Benzene  
 (iii) Naphthalene (iv) Cresol