10/02022_ SYBSC-SEM III CHEMISTRY-II 100MARKS VCD/ 3HRS. NOTE: i) All the questions are compulsory. ii) Figures to right indicate full marks. iii) Use of non-programmable calculator/log table is allowed. Q.1.A. Fill in the blanks with suitble option.(anyTWELVE) (12)1) Reaction in which final product is formed by one or more steps is called.....reaction. a) Reversible b) Irreversible c) Consecutive d) Parallel 2) According to Arrhenius theory, as temperature increases the rate of reaction..... a) Decreases b) Increases c) Remains same d) Neither decreases nor increases 3) Which of the following condition is not satisfied by an ideal solution? a) $\Delta H \text{ mixing} = 0$ b) $\Delta V \text{ mixing} = 0$ c) Raoult's law is obey d) Formation of azeotropic mixture 4) Which of the following is example of completely miscible liquid at room temperature? a) Alcohol and water b) Phenol and water c) Iodobenzene and water d) Oil and water 5) When a chemical reaction obeys collision theory, then the probability factor is....... a) P=1 b) P>1 c) P<1 d) P=26) The process of separating a substance from its aqueous solution by shaking it with suitable and immiscible solvents is called..... a) Raoult's law b) Colligative property

- c) Solvent extraction
- d) Nernst distribution law
- 7) Second most abundant element of carbon family is.......
 - a) Carbon
 - b) Sillicon
 - c) Germanium
 - d) Lead
- 8) Formula for sillica is.....
 - a) SiO₄
 - b) SiO₂
 - c) SiCl4
 - d) SiCl₂
- 9) Synthesis of ammonia takes place by.....
- a) Winkler's method b) Froth flotation method
 - c) Nitrogenation process
- d) Haber-bsch process

18) The isomers of compound differing in the position of one atom and a double bond are Called......

a) Enantiomer b) Tautomers c) Diastereo isomer d) Stereoisomer

B. State wether following statement is true or false

a) For solution to undergo steam distillation the two liquids must be immiscible with each other.

b) Nitrogen exibit allotropy.

c) Friedel Craft acylation carried out in presence of acid anhydride and BaSO₄.

Acetophenone + NaHSO₃

ii.