

Paper: ChemistryTotal Marks: 40Month Test: July

Obt. Marks: \_\_\_\_\_

Theme/Unit: 7,8 (half)Grand Total: 40

Objective / Subjective:

ID: \_\_\_\_\_

Time: \_\_\_\_\_

Name: \_\_\_\_\_

class: 12th

Section: \_\_\_\_\_



Q NO. 1: Choose the right answer. /10

- 1) The refined form of mineral oil is called:
  - (a) Crude oil
  - (b) Refined oil
  - (c) Petroleum
  - (d) Natural gas
- 2) Most organic compounds are soluble in:
  - (a) Water
  - (b) Polar solvent
  - (c) Benzene
  - (d) Milk
- 3) High quality form of coal is:
  - (a) Peat
  - (b) Lignite
  - (c) Bituminous coal
  - (d) Anthracite
- 4) The shape of  $sp^2$  hybridized molecule is:
  - (a) Tetrahedral
  - (b) Trigonal planer
  - (c) Linear
  - (d) Bended
- 5) Triple bond is consist of:
  - (a) 2 sigma 1 pi
  - (b) 1 sigma 2 pi
  - (c) 3 sigma
  - (d) 3 pi
- 6) The melting point of alkanes increases when:
  - (a) Molecular mass increase
  - (b) Molecular mass decrease
  - (c) Density increase
  - (d) Density decrease
- 7) The geometry of alkanes is:
  - (a) Tetrahedral
  - (b) Trigonal planer
  - (c) Linear
  - (d) Cubic
- 8) Wolf Kishner's reduction is catalyzed by:
  - (a) Zinc amalgam
  - (b) Ether
  - (c) Hydrazine
  - (d) Water
- 9) Which one of following has higher boiling point :
  - (a) n-pentane
  - (b) Iso-pentane
  - (c) neo-pentane
  - (d) Pentene
- 10) Alkanes are less reactive because of:
  - (a) Non-polar nature
  - (b) Inertness of bond
  - (c) Solubility
  - (d) Both a and b

**Q No. 2: Short Questions. /18**

- 1) Draw structure of acid amide, ester and thiol functional group?
- 2) Draw structure of toluene and anthracene.
- 3) Tetraethyl lead is an efficient antiknock agent. Why its use is prohibited?
- 4) What is meant by inertness of sigma bond?
- 5) Explain Sabatier-Sendem's reaction?
- 6) Define geometric isomerism with example?
- 7) Differentiate between metamerism and tautomerism.
- 8) Define heterocyclic compounds with example?
- 9) What is catalytic cracking?

**Q No. 3: Give detailed answers. /12**

- 1) Explain  $sp^3$  hybridization with example. /7
- 2) Explain Kolbe's electrolytic method and reaction of alkanes with Grignard reagents. /5