# 12. GENERAL ORGANIC CHEMISTRY

### CONCEPTUAL BULLETS

- Which of following is homologous series
  - 1) C<sub>2</sub>H<sub>6</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>3</sub>, C<sub>3</sub>H<sub>4</sub>
  - C<sub>6</sub>H<sub>6</sub>, C<sub>7</sub>H<sub>8</sub>, C<sub>9</sub>H<sub>10</sub>, C<sub>9</sub>H<sub>12</sub>
  - 3) CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>4</sub>H<sub>10</sub>
  - 4) C,H,, C,H,, C,H,, C,H,
- The number of hybrid and unhybridised orbitals involved in the formation of a C2H4 molecule
  - 1) 8, 4 2) 5, 5
- 3) 6, 6 4) 6, 4
- The IUPAC name of the given compound - CH<sub>2</sub> - CH = CH<sub>2</sub> is
  - 1) 3-Cyclopropyl-1-propene
  - 2) 1-Allycyclopropene
  - 3) 3-Allyleyelopropene
  - 4) 3-Cyclopropene-1-propene
- Identify the heterocyclic aromatic compounds among the following:
  - I = Furan.

II - Phenol

III = pyrrole 1) I, II, III

IV = Pyridine 2) I, II only

3) II, III, IV

- 4) L. III, IV
- IUPAC name for following compound  $CH_2 = CH - CH_2 - CH - C = CH$ CHL
  - 1) 4-Methyl-hex-1-ene-5-yne
  - 2) 3-Methyl hex-5-en-1-yne
  - 3) 4-Ethynyl Pent-I-ene
  - 4) 2-Ethynyl Pent-4-ene
- Glycerol can be separated from spent lye in soap industry by using
  - 1) Steam distillation
  - Vaccum distillation
  - Simple distillation
  - 4) Differential extraction
- Ratio of π to σ bonds in benzene is
  - 1) 1:4 2) 1:2
- 3) 3 : 1
- 4) 1:6

- Which of the following compounds have only one type of hybridised carbon atoms ?
  - 1) CH, = CH CH = CH,
  - 2) HC = C C = CH
  - CH<sub>1</sub> CH<sub>2</sub> CH<sub>3</sub> CH<sub>3</sub>
  - 4) All the above
- 9. LIST 1
  - A) Neopentane
  - B) Isobutane
  - C) Cyclohexane

  - D) Isopentane

- LIST 2
- 1) 1° and 3°-Carbons
- 2) All 2°- Carbons
- 3) 1° and 4°- Carbons
- Only 1° Carbons
- 5) 1°, 2° and 3°- Carbons
- The correct match is
  - 3
    - 2 5
- 4) 3
- 10. IUPAC names of
  - CH, = CH CH, and CH, CH = CH groups respectively are
  - 1) 2-propenyl & 1-propenyl
  - 2) 1-propenyl & 2-propenyl
  - 3) Allyl & vinvl
- 4) Vinyl & allyl

- 11. LIST 1 (Radical)
  - A)Vinyl
  - B)Allyl

  - C)Propenyl D)Phenyl

(Formula) C<sub>c</sub>H<sub>c</sub>—

LIST - 2

- 2) CH, CH-
- 3) CH<sub>3</sub>-CH<sub>3</sub>-CH<sub>3</sub>-
- 4) CH<sub>1</sub>-CH = CH-5) CH, - CH - CH,-
- The correct match is
- B C D 1) 2 5
- D 2) 5 3
- 3) 2 4
- 45 1
- 12. Which one of the following does not have sp2 hybridised carbon?
  - 1) Acetone

- Acetic soid.
- Acetonitrile
- 4) Acetamide

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