

Selvam College Of Technology, Namakkal (Autonomous)

IT Support & Development Training Programme (ISDTP)



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|--|---------------------------|----------|----|--|
| Worksheet -5 (Carbon and its Compound) | | | | |
| Bundle & | Advanced Bundle V2 | | | |
| Subject | (2025) - Competitive Exam | Semester | VI | |
| Name | Training - SC (Level 2) | | | |

Answer Key (10*1=10)

- 1. What is the general formula of alkynes? (RRC Group D 2021)
 - A) CnH2n+2

B) CnH2n

C) CnH2n-2

D) CnH2n-4

Ans: C) CnH2n-2

- 2. What is the IUPAC name of the hydrocarbon with the molecular formula C6H14? (RRB ALP 2018)
 - A) Hexane

B) Cyclohexane

C) Methane

D) Propane

Ans: A) Hexane

- 3. What is the geometry around each carbon atom in a diamond?
 - A) Linear

B) Trigonal planar

C) Tetrahedal

D) Octahedral

Ans: C) Tetrahedal

- 4. What is the common name of ethanoic acid?
 - A) Acetic Acid

- B) Formic Acid
- C) Propionic Acid
- D) Butanoic Acid

Ans: A) Acetic Acid

| 5. | Which of the following is a structural formula for butane? | | | |
|-----|--|---|--|--|
| | A) CH3-CH2-CH2-CH3 | в) снзснз | | |
| | C) CH3CH2CH3 | D) CH3-CH2-CH3 | | |
| | Ans: A) CH3-CH2-CH3 | | | |
| 6. | Who is credited with the di A) Dmitri Mendeleev | scovery of carbon as an element? B) Antoine Lavoisier | | |
| | C) Joseph Priestly | D) Robert Boyle | | |
| | Ans: B) Antoine Lavoisier | | | |
| 7. | Soaps are sodium or potassium salts of long chain | | | |
| | (RRB JE 2019) | | | |
| | A) -COOH | B) -OH | | |
| | C) -CHO | D) -OR | | |
| | Ans: A) -COOH | | | |
| 8. | Which carbon is known as Buckminsterfullerene? | | | |
| | A) C 14 | B) C 6 | | |
| | C) C 20 | D) C 60 | | |
| | Ans: D) C 60 | | | |
| 9. | Which allotrope of carbon | has a three-dimensional network structure | | |
| | is known for its hardness and high melting point? | | | |
| | A) Graphite | B) Diamond | | |
| | C) Fullerene | D) Amorphous carbon | | |
| | Ans: B) Diamond | | | |
| 10. | Which of the following is a saturated hydrocarbon? (RRB JE 2023) | | | |
| | A) Methane | B) Propylene | | |
| | C) Butadiene | D) Acetylene | | |
| | Ans: A) Methane | | | |