

## CBSE Class 11 Chemistry Chapter 12 Organic Chemistry – Some Basic Principles & Techniques Worksheet – Set 4

- Q1. How many sigma and pi bonds are there in cyanogen?
- (a) Three, four
- (b) Two, Three
- (c) One, Two
- (d) None of the above

## Q2. Which of the following elements cannot be detected by Lassaigne's test?

- (a) Nitrogen
- (b) Sulphur
- (c) Chlorine
- (d) None of the above

## Q3. Which of the following contains a carbonyl functional group?

- (a) Aldehyde
- (b) Ketone
- (c) Carboxylic acid
- (d) All of the above
- Q4. What is the general formula of alkenes?
- (a) C<sub>n</sub>H<sub>2n+2</sub>
- (b)  $C_n H_{2n}$
- (c) C<sub>n</sub>H<sub>2n-2</sub>
- (d) None of the above

## Q5. Which of the following methods is used to estimate nitrogen?

- (a) Carius method
- (b) Duma's method
- (c) Both (a) and (b)
- (d) None of the above
- Q6. What are structural isomers?

**Q7.** Which family is represented by the general formula  $C_nH_{2n-2}$ ? Write the IUPAC name and common name of the first three members of this series.

Q8. What is the principle of chromatography?

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**Q9.** Draw the structure of o-ethyl anisole and 4-ethyl-1-fluoro-2-nitro benzene.

**Q10.** What is an addition reaction? Give an example.

**Q11.** Name any two functional groups containing carbonyl bonds.

Q12. Give an example of positional isomers.

**Q13.** What is a carbocation? Arrange primary, secondary and tertiary carbocation in order of their stability.

**Q14.** What is an isomerisation reaction? Give an example.

**Q15.** What is dry ice? Give its one use.

**Q16.** What is the resonance effect? Draw the resonating structure of nitrobenzene.

**Q17.** Differentiate between distillation, steam distillation and distillation under reduced pressure.

**Q18.** Explain the principle of Dumas's method of nitrogen estimation.

Q19. Differentiate between electrophile and nucleophile.

**Q20.** 0.395 g of an organic compound by the Carius method for estimating sulphur gave 0.582g of barium sulphate. Calculate the percentage of sulphur in the compound.