

CHEMISTRY STUDY MATERIALS FOR CLASS 10

(NCERT Based: MCQ with Answers)

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Direction (Q58 to Q62): In the following Questions, the Assertion and Reason have been put forward. Read the statements carefully and choose the correct alternative from the following:

- (a) Both the Assertion and the Reason are correct and the Reason is the correct explanation of the Assertion.**
- (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.**
- (c) Assertion is true but the Reason is false.**
- (d) The statement of the Assertion is false but the Reason is true.**

58. Assertion: Methane is simplest saturated hydrocarbon which is a major component of natural gas.

Reason: Methane belongs to alkene.

ANSWER: B

Explanation: (b) Assertion is true but the Reason is false.

59. Assertion: Ethanol is present in alcoholic drinks.

Reason: Ethanol has formula CH_3OH .

ANSWER: C

Explanation: (c) Assertion is true but the Reason is false.

60. Assertion: Ethanoic acid reacts with ethyl alcohol in presence of cone H_2SO_4 to form ethyl ethanoate.

Reason: Esters are used in icecreames and cold drinks. **ANSWER: B**

Explanation: (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.

61. Assertion: Vegetable oils are unsaturated; react with hydrogen in presence of nickel to form vegetable ghee.

Reason: This reaction is Saponification.

ANSWER: C

Explanation: (c) Assertion is true but the Reason is false.

62. Assertion: Soaps are 100% biodegradable but do not work well with hard water.

Reason: Some detergents are not bio-degradable but work well with hard water.

ANSWER: B

Explanation: (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.

Fill in the Blanks and True -False with Answers

63. 100% pure ethyl alcohol is called _____ .

ANSWER: ABSOLUTE ALCOHOL

64. Carboxylic acid containing one carbon atom is called _____ .

ANSWER: FORMIC ACID

65. Methane reacts with 1 mole of chlorine in presence of sunlight to give _____
the reaction is called _____ reaction.

ANSWER: CHLOROMETHANE, SUBSTITUTION

66. The number of isomers of C_6H_{14} are _____ .

ANSWER: 5

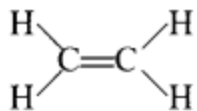
67. Buckminster fullerene is an isomer of carbon containing clusters of carbon atom joined together to forms spherical molecules. [True/False]

ANSWER: FALSE

68. The general formula of saturated hydrocarbons is C_nH_{2n+2} . [True/False]

ANSWER: TRUE

69. The structural formula of ethyne is [True/False]



ANSWER: FALSE

70. The IUPAC name of ethylene is ethyne. [True/False]

ANSWER: FALSE

71. When the oxygen supply is insufficient, then fuel bum incompletely producing mainly a blue flame. [True/False]

ANSWER: FALSE

72. The addition of hydrogen to an unsaturated hydrocarbon to produce saturated hydrocarbon is known as hydrogenation. [True/False]

ANSWER: TRUE
