

Quadrant IV – Assessment (Module –wise)

Programme: FY BSc

Subject: Chemistry

Paper Code: CHC-101

Paper Title: Physical and Organic Chemistry (Section B)

Unit: 1 (Fundamentals of Organic Chemistry)

Module Name: Huckel's Rule (Part I)

Module No: 17

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MCQ

1. Which of the following are aromatic compounds?
a) Cyclohexene b) 1,3-Cyclohexadiene c) 1,4-Cyclohexadiene d) Benzene

Short Answer – II (extended – say 50 to 100 words)

- Evaluate the following compounds using Huckels rule for their aromatic character.
a) 1,3-Cyclopentadiene b) 1,3,5-Cycloheptatriene c) 1,3-Cyclobutadiene
- Considering [8] annulene to be planar write its different resonance forms and hybrid structure and show their interconversion by delocalization of pi bonds
- Draw the structures of [12] and [14] annulenes and evaluate them using Huckel's rule for aromaticity.