

I-S-(M.Sc.Chem-CBCS)-
402-(O.Ch.-I)R&B

2019

Time : As in Programme

Full Marks : 50

Answer all questions. The figures in the right-hand margin indicate marks.

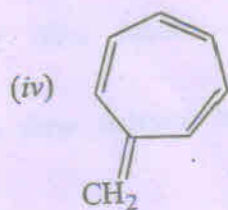
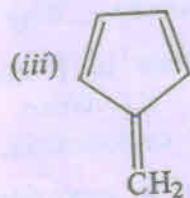
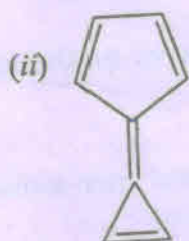
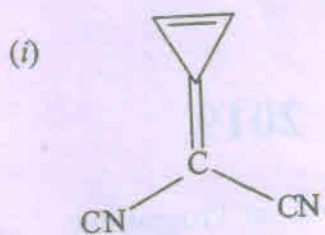
1. (a) Explain antiaromatic and non-aromatic compound with examples. 4
- (b) Resonance energy of benzene is much more higher than 1,3-butadiene. Why? 2
- (c) How can you differentiate α , β and γ cyclodextrin? Explain it. Write the structure of α , β and γ cyclodextrin. 3
- (d) Explain steric-strain due to unavoidable crowding. 3
- (e) Explain Felkin-Ahn model with two examples. 3
- (f) Explain stereospecific reaction with one example. 2

OR

(2)

(a) The given compounds are aromatic or non-aromatic and why? Explain.

4



(7)

- (c) Explain mixed S_N2 and S_N1 mechanism. 2
- (d) Explain S_E1 mechanism with examples. 2