



Eastern University, Sri Lanka

First Year Second Semester Examination in Science

2013/2014(April /May 2016)

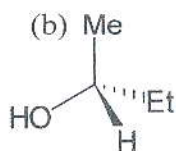
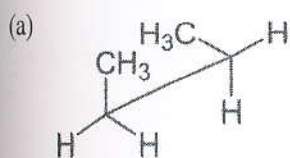
CH 103 Stereochemistry and Kinetic Molecular Theory of Gases

(Proper)

Answer All questions

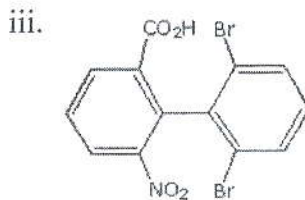
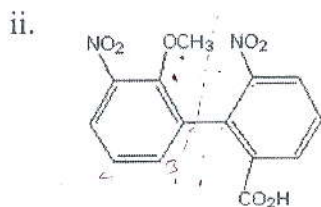
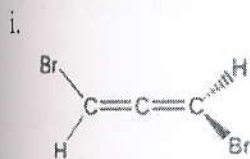
Time Allowed: ONE HOUR

(i) Draw the Fischer projection formulae of the following molecules.



(18 marks)

(ii) Giving reason determine whether each of the following molecules is chiral or achiral.

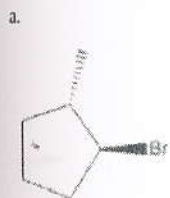


(21 marks)

(iii) Draw the two possible chair conformations of *cis*-1-*tert*-butyl-4-chlorocyclohexane and give reasons which one is the most stable chair form.

(21 marks)

(iv) Determine whether each of the following pairs are enantiomers.



and



b.



and



(22 marks)

Contd.

