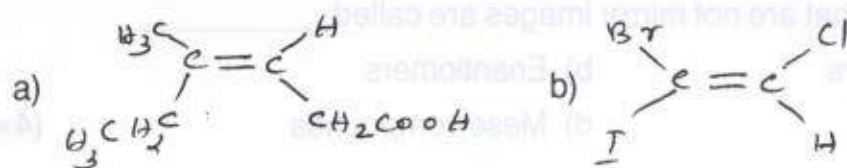




SECTION - C

Answer **any four** questions. **Each** carries a weightage of **2**.

13. Explain the mechanism of electrophilic addition of hydrogen halide to carbon-carbon double bond.
14. Narrate the mechanism of nitration of benzene.
15. How is chloroform prepared from alcohol using bleaching powder? Write equation.
16. What do you understand by E and Z notations? Assign E or Z configuration to each of the following compounds:

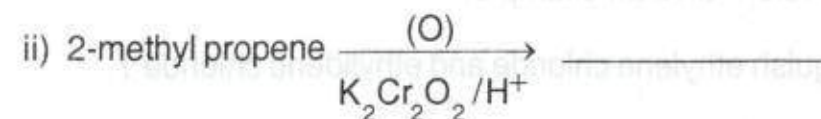
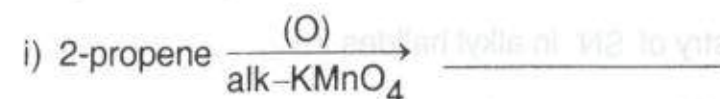


17. Write short note on alkadienes.
18. Explain with example of IUPAC rules for naming polyfunctional compounds. (4×2=8)

SECTION - D

Answer **any two** questions. **Each** question carries a weightage of **4**:

19. a) Write the preparation of cyclohexane (Freund's method) and cyclopentane (Wislicenus method)
- b) Complete the equation:



20. Explain mesomeric effect and hyperconjugation effect along with its application.
21. Discuss:
 - a) Conformation of cyclohexane
 - b) Characterisation of geometrical isomers. (2×4=8)



Reg. No. :

Name :

V Semester B.Sc. Degree (CCSS – Reg./Supple./Imp.) Examination,
November 2014

CORE COURSE IN CHEMISTRY
5 B09 CHE : Organic Chemistry – I

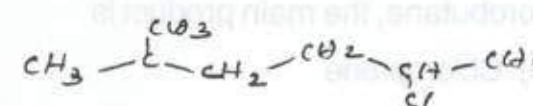
Time : 3 Hours

Max. Weightage : 25

SECTION - A

Answer **all** questions. Choose the correct answer. **Each** bunch of **four** questions carries a weightage of **1**.

1. i) The IUPAC nomenclature of following compound is



- a) 2-chloro-5-methyl pentanal
 - b) 2-chloro-5-methyl hexanal
 - c) 5-chloro-2-methyl hexanal
 - d) 2-chloro-5-methyl pentanol
- ii) When – OH, – COOH, – CN and – NO₂ groups are present in a molecule, the principal functional group is _____
 - a) hydroxy
 - b) nitro
 - c) carboxylic acid
 - d) nitrile
 - iii) Which statement is false?
 - a) Many alkanes are soluble in water
 - b) All alkanes have lower density than water
 - c) At room temperature some alkanes are liquids, some solids and some gases
 - d) All alkanes burn
 - iv) Which of the following compounds react with ammoniacal cuprous chloride to give a precipitate?
 - a) 1-butene
 - b) 2-butene
 - c) 1-butyne
 - d) 2-butyne

