

Uva Wellassa University
Faculty of Animal Sciences & Export Agriculture

BSc in Tea technology and value Addition

End Semester Examination February/ March 2012
Year II Semester I



Basic Organic Chemistry (TEA 231-1) & Repeat

Instructions

Answer all questions

No. of questions: 02

No. of pages: Two (02)

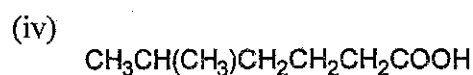
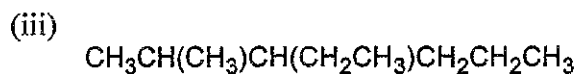
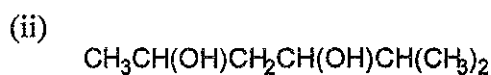
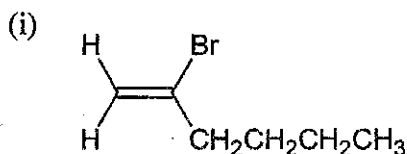
Time: One Hour

Total marks allocated: 100%

Index No:

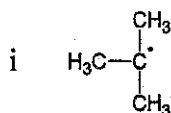
01 (a) Give the IUPAC names of following compounds

[20 marks]

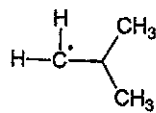


(b) Arrange the following species in increasing order of their stability.
Explain your answer

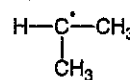
[40 marks]



(A)

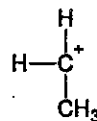
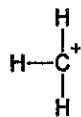
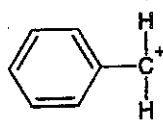


(B)



(C)

ii



(c) Draw the acceptable Lewis structures for following species. [15 marks]

i. CHCl_3

ii. CO_3^{2-}

(d) Aniline is a weaker base than ammonia. explain [25 marks]

02

(a) What kind of intermolecular forces are expected in following substances? (Do not explain) [20 marks]

i. CHCl_3

ii. C_2H_6

iii. $\text{CH}_3\text{CH}_2\text{OH}$

(b) Ethanol boils at 78°C and dimethylether (CH_3OCH_3) boils at -24°C . Explain [25 marks]

(c) Briefly explain following terms using suitable examples. [20 marks]

i. Bronsted acids and bases.

ii. Lewis acid and Lewis bases.

(d) Using appropriate examples explain the intermolecular and intramolecular hydrogen bonding. [35 marks]