



Eastern University Sri Lanka

Third Year First Semester Examination in Science

2008/2009 (April/May 2010)

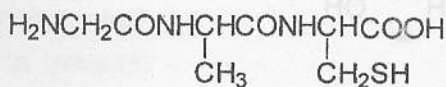
External Degree (2004/2005)

EXTCH 301: CHEMISTRY OF NATURAL PRODUCTS

Answer all questions

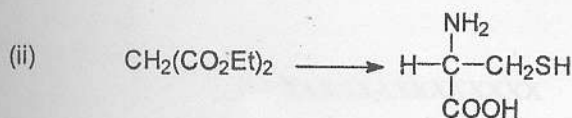
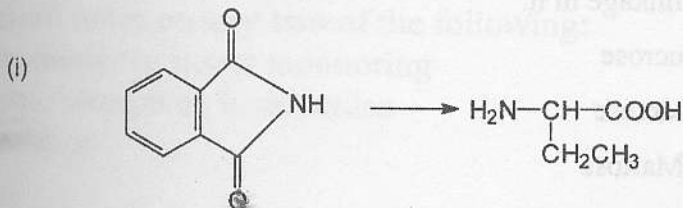
Time : One Hour

- 1 (a) Show how the following tri peptide can be synthesized starting with individual amino acids.



(30 marks)

- (b) Indicate by means of equation how the following transformation may be effected?



(40 marks)

- (c) Give the isomeric natures of Citral and discuss a method to synthesis one of its isomers.

(30 marks)

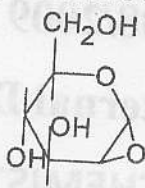
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2. (a) Write the cyclohexane configuration of menthol, isomenthol, neomenthol, neoisomenthol.

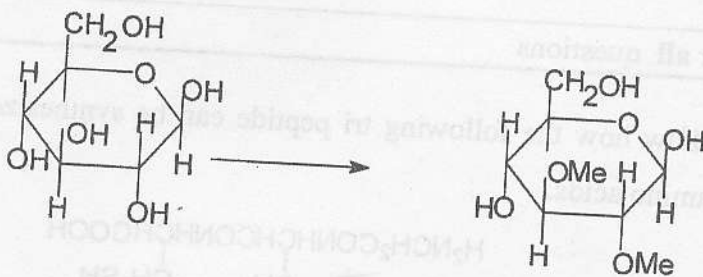
(40 m)

(b) Indicate by means of equations show how the following conversions are effected. Give essential experimental conditions.

(i) Glucose \longrightarrow



(ii)



(c) Draw the structures of the following disaccharides and indicate the type of the linkage in it.

(i) Sucrose

(ii) Lactose

(iii) Maltose

(30 m)

(30 m)

End of Paper