



EASTERN UNIVERSITY, SRI LANKA

FIRST SEMESTER THIRD EXAMINATION IN SCIENCE

2009/2010 (JUNE - JULY 2011)

CH 302: HETEROCYCLIC CHEMISTRY AND ORGANIC REARRANGEMENT REATIONS (Proper & Repeat)

Answer all questions

Time Allowed: One hour

1) (a) Indicate how the following conversions could be effected and give essential experimental conditions.

(i)

(ii)

(iii)

Contd.

(4x15 = 60 marks)

(b) Give the structure of the product formed in the following rearrangement reactions

i)

ii)

iii)

iv)

(4x10 = 40 marks)

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i)

ii)

iii)

iv)

(4x20 = 80 marks)

(b) Explain the observation when Pyridine is treated with mixture of conc. HNO_3 & conc. H_2SO_4 acids 3 – nitro pyridine is obtained as the product.

(20 marks)