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Reg. No:			 	

The Open University of Sri Lanka

B. Sc Degree / Stand Alone Programme 2006/2007

Organic Chemistry - CHU 3126 / CHE 5136

Level 5 - Assignment I - Test

Duration 11/2 hours



	Marks						
Q	Max	Awarded					
1	30						
2	20						
3	10						
4	40						
7	otal						

2006-12-18

3.30 pm - 500 pm

Answer all questions.

Maximum marks allocated to this paper are 105. However a candidate who scores 100 marks or above will be awarded 100% and those scoring less will be awarded the score they make.

1. a. Draw resonance structures for Pyrrole.

b. Giving reasons, state why pyrrole is less basic than pyridine.

c. During the synthesis of pyrroles, acetoacetates are reacted with NaNO2 / HOAc. One of the primary reactions that take place is as follows.

Give the mechanism of this reaction. (Hint: *NO is formed from NaNO2 and HOAc) (30 Marks)

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2. Giving necessary reagents and conditions show how you would carry out the following conversions.

(20 Marks)

- 3. Give **ONE** example to illustrate nucleophilic substitution reaction of quinoline (10 Marks)
- 4. a. Give a method to prepare the following compound.



(05 Marks)

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b. Give the products of the following reactions.

(20 Marks)

c. Giving appropriate mechanism, explain why the following reaction does not occur.