



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc DEGREE PROGRAMME / STAND ALONE COURSES 2006/2007
LEVEL 5 – CONTINUOUS ASSESSMENT TEST 1 (NBT)

CHU 3139 - BIO CHEMISTRY 1

DURATION : 1 1/2 HOURS

Date: 29th December 2006

Time : 3.30 p.m. – 5.00 p.m.

Reg. Number

Question	Marks
1	
2	
Total	

Instructions to candidates:

This Question paper has 04 pages and 2 questions. Answer all questions in the space provided.

01. (i). What molecules combine together to give following biomolecules?
- a) Proteoglycan –
 - b) Phospholipid –
 - c) Glycoprotein –
 - d) Peptidoglycan -

(ii). What are the nucleoside bases found in DNA and RNA?
DNA RNA

(iii). Explain two colour reactions that can be used to detect amino acids and peptides?
What are the colour changes you can observe?

(iv). How peptide bond is formed? Explain.

(v). What do you mean by electrophoresis? What is the importance of it?

02. (i). What is the difference between denaturation and renaturation of proteins?

(ii). What are the methods of renaturing proteins?

(iii). Briefly explain the different levels of organization in proteins? What are the forces that act at each level of organization?

(iv). What is meant by immunoglobulin? List different classes of immunoglobulin.

(v). Discuss the principles of isoelectric precipitation? What is the importance of it?