No. of Printed Pages : 8

BNS-102

POST BASIC
BACHELOR OF SCIENCE (NURSING)

Term-End Examination,

June, 2011

02396

BNS-102 : APPLIED SCIENCE (BIOCHEMISTRY, BIOPHYSICS, MICROBIOLOGY, NUTRITION AND DIETETICS)

Time : 3 hours *Maximum Marks : 70*

Instructions :

1. *Applied Science Course comprises of the following four parts :*

Part A : Biochemistry	–	*18 marks*
Part B : Biophysics	–	*17 marks*
Part C : Microbiology	–	*18 marks*
Part D : Nutrition and Dietetics	–	*17 marks*

2. *Students appearing for Applied Science Course Examination should follow the relevant instructions given below :*

   (a) ***For those appearing for the first time for the examination of Applied Science Course :*** *The students should answer the questions of all the four parts in separate answer sheets provided. On the top of each answer sheet the student should enter the Enrolment No., Course Code, Course Title and Parts.*

   (b) ***For those who are reappearing for the examination of Applied Science Course :*** *The students need to answer only those parts, on separate answer sheets, which have not been successfully completed.*

PART-A Biochemistry

- *Answer **all** the questions. Choice wherever is indicated in the question itself.*

1. (a) Define denaturation of protein. **1+1+1=3**
   (b) Give two examples of denaturation of proteins.
   (c) Write any two effects of denaturation of proteins.

2. Name any two disaecharides of physiological significance and give hydrolysis product of any one disaecharides. **1+1=2**

3. Differentiate between the following : **1x3=3**
   (a) Nucleoside and Nucleotide
   (b) Fats and Waxes
   (c) Glycosidic bond and peptide bond.

4. (a) Define osmosis and give one example of Practical application of osmosis. **1+2=3**
   (b) Differentiate between hypertonic and hypotonic solutions.

5. (a) Define the terms enzymes and Co-enzymes
   (b) Enumerate any four characteristic features of enzymes. **1+1+2=4**

OR