

**B.Sc. (Hons.) IN OPTOMETRY AND  
OPHTHALMIC TECHNIQUES (BSCHOT)**

**Term-End Examination**

**December, 2013**

**BOS-003 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

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- Note :**
- (i) *There are two parts of this question paper.*
  - (ii) *Attempt any five questions from Part A.  
Each carries 8 marks.*
  - (iii) *Attempt any five short notes from Part B.  
Each carries 6 marks.*
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**PART - A**

- 1. Draw a labelled diagram of excretory system and explain the physiology of urine formation. 8
- 2. Describe the structure of Central Nervous System (CNS) with the help of suitable diagrams. 8
- 3. Define digestion. Describe the various processes involved in digestion. 8
- 4. (a) Write definition and chemical composition of proteins. 2+3+3  
(b) How will you classify proteins ?  
(c) Enlist various functions of proteins in the human body.

5. (a) Explain the structure of bacteria. 3+3+2  
(b) How will you classify bacteria ?  
(c) Enlist the diseases caused by Gram positive and Gram negative bacteria.
6. (a) Define inflammation. 1+2+5  
(b) What are various causes of inflammation ?  
(c) Describe the signs of acute inflammation.
7. Describe the drugs used in the treatment of 8  
diseases of digestive system.

**PART - B**

8. Write short notes on **any five** of the following : 6x5=30
- (a) Blood groups
  - (b) Routes of administration of drugs
  - (c) Muscular Tissue
  - (d) Benedict's Test
  - (e) Drugs used in Tuberculosis
  - (f) Functions of skin
  - (g) Diffusion, osmosis and dialysis
  - (h) General Anaesthetics
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