

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

Term-End Examination

December, 2014

BOS-003 : BASIC HUMAN SCIENCES

Time : 3 hours

Maximum Marks : 70

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- Note :**
- (i) Answer **any five** questions from **Part A**.
Each carries 8 marks.
 - (ii) Answer **any five** questions from **Part B**.
Each carries 6 marks.
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PART - A

Answer **any five** questions.

- 1. (a) Draw a well labelled diagram of the digestive system. **4+4**
(b) Describe the process of digestion in the stomach.
- 2. What is a nephron ? Describe the physiology of excretion and urine formation. **8**
- 3. (a) Describe the structure, classification and antigenic type of Chlamydia. **3+5**
(b) Discuss the clinical manifestations, diagnosis and control of infections caused by chlamydia.

4. Define neoplasia and differentiate it from the hyperplasia. List the different types of neoplasia. 8
5. Describe the causes, symptoms and diagnosis of allergic reactions. 8
6. Describe the various methods of administration of drugs with suitable examples. 8
7. (a) What are electrolytes ? 2+3+3
(b) Describe the physiological importance of electrolytes.
(c) Explain the water and electrolyte balance
8. Describe the structure and functions of the blood. 8

PART - B

9. Write short notes on any five of the following : 6x5=30
 - (a) Menstrual cycle
 - (b) Electrocardiograph (ECG)
 - (c) Pituitary gland
 - (d) Mast cell stabilisers
 - (e) Types of joint
 - (f) Cell reproduction
 - (g) Enzymes
 - (h) Antiviral drugs
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