

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

**Term-End Examination**

**December, 2012**

**BOS-003 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :**
- (i) *This Question Paper contains two parts.*
  - (ii) *Answer any five questions from Part-A. Each carries 8 marks.*
  - (iii) *Answer any five short notes from Part-B. Each carries 6 marks.*

**PART-A**

Answer *any five* Questions.

1. Describe the various parts of the respiratory system with the help of diagram and explain its functions. 8
2. Describe the circulation of blood in the body with the help of well labelled diagrams. 8
3. (a) Enlist the various types of joints in the body with examples. 3+5  
(b) Describe the structure and properties of skeletal muscles.

4. (a) Describe the composition and functions of blood. 5+3  
(b) Enlist the different types of blood groups and their significance.
5. Describe the pharmacokinetics of different drugs. 8
6. (a) Describe the structure of a bacterial cell. 3  
(b) How will you classify the bacteria? 3  
(c) Enlist the basis of action of different antimicrobial agents. 2
7. (a) Describe the structure and function of a cell. 4+4  
(b) Enlist the various active and passive transport progresses of the cell.

## PART - B

8. Write short notes on *any five* of the following : 6x5=30
- (a) Cerebrospinal fluid (CSF)
  - (b) Malabsorption Syndrome
  - (c) Antifungal drugs
  - (d) Tuberculosis
  - (e) Menstrual cycle
  - (f) Cell Reproduction
  - (g) Functions of skin
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