

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

**Term-End Examination**

**December, 2015**

**BOS-003 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :** (i) *This question paper contains 2 parts.*
- (ii) *Answer any 5 questions from Part A. Each carries 8 marks.*
- (iii) *Answer any 5 short notes from Part B. Each carries 6 marks.*

**PART - A**

Answer any five questions.

**8x5=40**

1. Describe the anatomy of the human heart with the help of well labelled diagrams.
2. What are the different types of nerve present in human body ? Name the Cranial Nerves and the organs they supply.
3. Enumerate the hormones produced by the pituitary gland along with their functions.
4. What is cell division ? Differentiate between Mitosis and Meiosis with the help of well labelled diagrams.

5. Describe the structure of HIV (Retrovirus) with the help of suitable diagram.
6. Describe the clinical classification of fungi and diagnosis of fungal infections.
7. Write the difference between :
  - (a) Pharmacodynamics and Pharmacokinetics.
  - (b) Synergism and Antagonism.

### **PART - B**

8. Write short notes on **any five** of the following :
    - (a) HDL (High Density Lipoprotein) **6x5=30**
    - (b) Menstrual Cycle
    - (c) Cerebro Spinal Fluid (CSF)
    - (d) Nephron
    - (e) Types of Joints
    - (f) Gram Negative Bacteria
    - (g) Thyroid Hormones
    - (h) Non-Steroidal Anti-Inflammatory Drugs (NSAID)
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