

Code No. 8032

**FACULTY OF PHARMACY****B. Pharmacy I - Year (Supplementary) Examination, October / November 2014****Subject : Anatomy, Physiology and Health Education****Time : 3 Hours****Max. Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 (a) (i) Discuss the properties and functions of Nervous tissue. (8)  
(ii) Write a note on action potential. (6)  
**OR**  
(b) Explain the structure and functions of the following bones with neat diagrams (14)  
(A) Femur (B) Tarsals (3) Thoracic (D) Axis
- 2 (a) (i) What is a synapse? Define and explain a reflex arc. (8)  
(ii) Define blood pressure. What are the factors affecting changes in blood pressure. (6)  
**OR**  
(b) (i) Explain the division of autonomic nervous system. Discuss its functions. (8)  
(ii) Discuss the anatomy and physiology of heart. (6)
- 3 (a) (i) Discuss the anatomy and physiology of respiration. (8)  
(ii) Elaborate on the enzymes involved in digestion. (6)  
**OR**  
(b) (i) Discuss the mechanisms of hormonal secretion. Explain the anatomy and physiology of adrenal gland. (8)  
(ii) Explain the terms: (6)  
(A) Vital capacity (B) Respiratory Volume  
(C) Anoxia (D) Hypoxia
- 4 (a) (i) Discuss the various parts, structure and functions of the kidney and urinary tract. (8)  
(ii) Discuss the basic anatomy and physiology of skin. (6)  
**OR**  
(b) (i) Discuss the physiology of urine formation. (8)  
(ii) Draw a neat labeled diagram of internal structure of eye and highlight the functions of various parts. (6)
- 5 (a) (i) Discuss various methods of family planning. (8)  
(ii) Write short notes on : (6)  
(A) Inflammation and repair (B) Neoplasms  
**OR**  
(b) (i) Write on nutritional disorders associated with water soluble vitamin deficiency. (6)  
(ii) Explain the terms: (8)  
(A) Haemorrhage (B) Embolism  
(C) Infarction (D) Oedema

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