

**FACULTY****B. Pharmacy I Year (Main) Examination, April 2016****Subject : Anatomy, Physiology and Health Education****Time : 3 Hrs****Max. Marks : 70*****Note: Answer all questions. All questions carry equal marks.***

- 1 (a) (i) Define tissue. Classify various types of connective tissues and explain any two with a neat labeled diagram. (8)  
(ii) Explain general principles of membrane permeability. (6)  
**OR**
- (b) (i) Write a note on bone tissue. (8)  
(ii) Explain the following bones with a neat diagram. (6)  
(a) Sternum (b) Clavicle
- 2 (a) (i) Describe the structures and functions of brainstem. (8)  
(ii) Explain the following: (6)  
(a) Neuron (b) anion (c) Synapse  
**OR**
- (b) Define clot. Explain various pathways in the process of blood clotting. Write a note on role of Vitamin K in blood clotting. (14)
- 3 (a) (i) Discuss the importance of enzymes in the process of digestion. (8)  
(ii) Describe the histology of small intestine. (6)  
**OR**
- (b) (i) Define Vital capacity. Discuss about neuronal regulation of respiration. (8)  
(ii) Discuss the disorders of pituitary gland. (6)
- 4 (a) (i) What is FR? Explain various factors affecting FR. (8)  
(ii) Explain the physiology of Smell. (6)  
**OR**
- (b) (i) Explain in detail about the anatomy of Ear. (8)  
(ii) Write about structure and functions of taste buds. (6)
- 5 (a) (i) Describe signs, symptoms and different stages of inflammation. (8)  
(ii) Write about various intrauterine devices in family planning. (6)  
**OR**
- (b) (i) Define Shock. Discuss different types of shock. (8)  
(ii) Write a note on edema and Embolism. (6)

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