**B. Pharm 1st Semester Examination**

**Subject- Human Anatomy & Physiology (HAP)-I (BPI0IT)**

**Full Marks- 75 Time – 3 hours**

**I**. **Multiple type questions (Answer all)**  (10 X 2= 20)

1) Which of the following terms describes the body's ability to maintain its normal state?

(A) Anabolism (B) Catabolism  
(C) Tolerance (D) Homeostasis

(E) Metabolism

2) Which of the following best describes the human body's defense mechanism against environmental bacteria?

(A) Hair in the nose (B) Mucous membranes  
(C) Osteoblasts (D) Saliva  
(E) Tears

3) Which cells in the blood do not have a nucleus?

(A) Lymphocyte (B) Monocyte  
(C) Erythrocyte (D) Basophil  
(E) Neutrophil

4) Which of the following is flexible connective tissue that is attached to bones at the joints?

(A) Adipose (B) Cartilage  
(C) Epithelial (D) Muscle  
(E) Nerve

6) Which of the following is the body cavity that contains the pituitary gland?

(A) Abdominal (B) Cranial  
(C) Pleural (D) Spinal  
(E) Thoracic

7) Which of the following anatomical regions of abdomen lies just distal to the sternum?

(A) Epigastric (B) Hypochondriac  
(C) Hypogastric (D) Lumbar  
(E) Umbilical

8) Which of the following cavities are separated by the diaphragm?

(A) Abdominal and pelvic (B) Cranial and spinal  
(C) Dorsal and ventral (D) Pericardial and pleural  
(E) Thoracic and abdominal

9) Which of the following terms describes the motion of bending the forearm toward the body?

(A) Abduction (B) Eversion  
(C) Flexion (D) Pronation  
(E) Supination

10) In which of the following positions does a patient lie face down?

(A) Dorsal (B) Erect  
(C) Lateral (D) Prone  
(E) Supine

**II**. **Long Questions (Answer any two) (2X10= 20)**

1. Write in detail about the classification of bones and explain the different types of joints in human body.
2. Classify endocrine glands. Briefly describe any three ductless glands with diagram and also their functions.
3. What are the divisions of ANS? Write the structure and function of sympathetic and parasympathetic nervous system.

**III.** **Short Questions (Answer any seven) (7X5=35)**

1. Draw a neat labelled diagram of cell and mention one function of each organelle of a cell?
2. What is joint and Classify joints with example?
3. Classify epithelial tissue and explain the structures of epithelial tissue with one example each?
4. What is homeostasis & explain the general mechanism of action of regulation of homeostasis?
5. Mention the bones of the cranium and list out the cranial nerves with its function?
6. Explain the structure of muscle with neat labeled diagram?
7. Describe the structure of thyroid gland with its functions.?
8. Explain the divisions and functions of ANS?
9. Explain the structure and function of Integumentary system. What is the role of stratum corneum in the skin?

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