

**Model Question Paper ER 20-14T**

**Diploma in Pharmacy 1<sup>st</sup> year**

**Subject: Human Anatomy & Physiology (Theory)**

**Time: 3 hrs.**

**Full Marks: 80**

**Note: Give example and draw diagram wherever necessary**

**I. Answer the following questions: 20×1=20**

**1) Answer in one sentence: 10×1=10**

- a) The connective tissue that connects muscle to bone is called
- b) What is the longest bone in the human body?
- c) what is the number of floating ribs in humans?
- d) What are the normal sound of heart?
- e) What is the largest endocrine gland?
- f) What are the part of small intestine?
- g) What is the source of ATP for muscle contraction.
- h) The tail of spinal cord is called?
- i) What is the unit of hearing?
- j) What is the function unit of kidney?

**2) Answers all the questions: 10×1=10**

- i. "Cell" the term coined by \_\_\_\_\_.
- ii. \_\_\_\_\_ blood cell protect the body from infection.
- iii. Wandering cells is another name for \_\_\_\_\_
- iv. The site of T cell maturation is the \_\_\_\_\_
- v. Each heart beat of human heart is complete in \_\_\_\_\_
- vi. C-shaped cartilaginous rings are present in \_\_\_\_\_
- vii. Obstructive jaundice is due to \_\_\_\_\_
- viii. \_\_\_\_\_ muscle has fibers joined by intercalated discs.
- ix. \_\_\_\_\_ is the 11<sup>th</sup> cranial nerve.
- x. Gustatory cells are found in the \_\_\_\_\_

**II. Short answer type questions (Answer any 10 out of 12): 10×3=30**

- a) why mitochondria are known as power house of the cell?
- b) Write a short note on simple epithelium tissue.
- c) Define joints. Classify its various types with suitable example.
- d) Describe any three disorders of joints
- e) Write note on Thymus gland & Tonsils
- f) Describe ABO blood group and its various types.
- g) Show systemic and pulmonary circulation diagrammatically.
- h) Describe the pulmonary gas exchange or the external respiration.
- i) Explain the meaning of metabolism.
- j) What are the different types of muscular tissue?
- k) Name the parts of the brain stem and give their functions.
- l) Describe the thyroid gland disorders.

**III. Long answer type questions (Answer any 6 out of 8):**

**6×5=30**

- a) Describe the composition of bone tissue.
- b) Describe the structure and functions of spleen.
- c) Describe the mechanism of blood clotting.
- d) Describe the normal electrocardiogram (ECG).
- e) Describe Transport of O<sub>2</sub> & CO<sub>2</sub> between lungs to body tissues.
- f) Describe the structure of a typical neuron.
- g) Describe the imaging formation in the retina of the eye.
- h) Describe the part of a nephron.

**NAME OF THE SUBJECT TEACHER: Ekbal Molla**  
**PH. NO: 8240753337**