

**B.P.Ed. Semester-I Examination 2014**

**Course Code : BPED - 112**

**(Anatomy and Physiology)**

**Time : Three Hours**

**Full Marks : 40**

Questions are of value as indicated in the margin

Answer **one** question from each Unit

**UNIT - I**

1. Define Anatomy and Physiology. "Knowledge of Anatomy and Physiology is essential in Physical Education" - explain. 1+1+6=8

OR

What are cell and tissue? State diagrammatically different tissues found in the human body with examples. 1+1+6=8

**UNIT - II**

2. Write types of bones with example. Enlist the bones of the human skull. State the functions of skeletal system. 2+3+3=8

Or

What is joint? Name different types of joints with examples. Which type of joint the wrist joint is? Describe different postural deformities. 1+2+1+4=8

**UNIT - III**

3. Classify muscular tissue with examples. Describe the microscopic structure of skeletal muscle. 2+6=8

Or

What are motor unit, sarcomere, neuromuscular junction, neurotransmitter, myofilament? Write different types of muscular contractions with examples. 5+3=8

**UNIT - IV**

4. Discuss Physiology of human blood circulation. Which chamber of the heart receives blood first? Name the middle muscular layer of the heart. 6+1+1=8

Or

What are antigen and antibody? Which blood group is called universal donor? What is the cardiac cycle time for a man of 75 beats/min heart rate? Write the function of circulatory system. 1+1+1+1+4=8

**UNIT - V**

5. Define respiration? Describe the mechanism of human respiration. 2+6=8

Or

What are minute ventilation, vital capacity, reserve volume and  $\dot{V}O_2$  max?

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