

**Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY**

**LONERE – RAIGAD – 402 103**

**Winter Semester Examination, December – 2017**

**Branch: B.Pharm.**

**Semester: I**

**Subject and subject code: Human Anatomy & Physiology I  
(BP101T)**

**Max. Marks: 75**

**Date: 18 / 12 / 2017**

**Time: 3 Hrs.**

- Instructions:**
- 1. All questions are compulsory.**
  - 2. Figures to the right indicate full marks.**
  - 3. Draw neat labeled diagrams wherever necessary.**

**Q. 1 Answer the following questions:**

**(10 x 2 = 20)**

- Define the terms metabolism & absorption.
- Give a list of functions of blood.
- Write differences between arteries & veins.
- Explain the terms cardiac arrhythmia & hypertension.
- Define anemia. Enlist different types of anemia.
- Name any 4 cranial nerves with their functions.
- Explain the anatomical terms medial & lateral.
- What is blood pressure? Enlist factors affecting blood pressure.
- Name the bones of the cranium.
- List out the different mechanisms of absorption of substances across cell membrane.

**Q. 2 Attempt any TWO of the following:**

**(2 x 10 = 20)**

- With a neat labeled diagram explain structure of human skin. Explain functions of skin.
- With a neat labeled diagram explain structure of human heart. Describe events in cardiac cycle.
- Discuss the ABO blood group system. Add a note on the Rh system.

**Q. 3 Attempt any SEVEN of the following:**

**(7 x 5 = 35)**

- Define & classify tissues with examples. Add a note on different types of muscular tissue.
- Classify joints in human body with examples. Describe in brief types of synovial joints.
- With a neat labeled diagram explain the structure of human eye.
- Explain the functions of different components of a human cell.
- Explain the functions of sympathetic nervous system.
- Explain the process of homeostasis in the body with example.
- What is lymph? Give its composition. Write the functions of lymphatic system.
- Write a note on physiology of muscle contraction.
- Classify different types of bones with examples. Discuss functions of skeletal system.

**----- END OF PAPER -----**

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