

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID :

Roll No.

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B.TECH.

Theory Examination (Semester-IV) 2015-16

HUMAN ANATOMY AND PHYSIOLOGY

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempts **all** parts. Each question carry **equal** marks. (2x10=20)
- What are the proteolytic enzymes that work in alkaline pH.
 - Draw structure of a normal heart wave with proper labeling.
 - What is the composition of the Urine.
 - What is the basic difference between cardiac and systemic circulation?
 - What are the enzymes involved in blood clotting.
 - What is Haversian canal system and where it is found?
 - Name any 2 neurotransmitters and its function.
 - What is tidal Volume?
 - What type of joints is found in the sutures of the skull.
 - What is hematopoiesis?

Section-B

2. Attempt any **five** Questions. (10x5=50)
- Explain in detail the origin of heart beat with clean labeled diagram.
 - Explain the digestion of the proteins.
 - Explain the structure of the respiratory system and the mechanism of breathing.
 - Explain the structure and the function of skin.
 - Draw a clean labeled diagram of ear and explain the mechanism of hearing.
 - What is neuron? Explain the conduction of nerve through neuromuscular junction.
 - Explain why pituitary is called the Master Endocrine Gland.
 - Explain the different types of joints found in human body.

Section-C

Attempt any **two** Questions (15x2=30)

- Explain the structure of human urinary system and the process for the formation of urine.
- Explain the structure of striated muscle and the mechanism of muscle contraction.
- Explain the different mechanism of O₂ and CO₂ transport.