

S.E.(BIOMEDICAL)(Sem III) (Choice Based) / 50502 - BASICS OF HUMAN PHYSIOLOGY

(3 Hours)

Total Marks: 80

- N.B.: (1) Question no. 1 is compulsory.
 (2) Answer **any 3** out of remaining **5** questions.
 (3) Figures on the right indicate full marks.
 (4) Draw appropriate diagrams wherever necessary.

1. (a) Draw the structure of Pituitary Gland and give its importance. 5
 (b) Explain the Twelve Lead ECG System 5
 (c) How is image formed on the Retina? 5
 (d) Give importance of Cerebro Spinal Fluid 5
2. (a) Explain Polarization and Depolarization of Cell 10
 (b) What is Hemoglobin? Mention its importance in human body. 10
3. (a) With suitable diagram explain how does the cardiac impulse transmits through the heart? 10
 (b) Draw the Spirogram and define various Lung Volume capacities. 10
4. (a) Explain the process of Micturition 05
 (b) What is the function of Gall Bladder in digestive system? 05
 (c) Explain the production, Secretion and Function of Bile 10
5. (a) What are the various lobes of Cerebrum? Give function of each. 10
 (b) Explain the Reflex action with reflex arc. Add a note on Synapse. 10
6. Write short notes on (Any four) 20
 (a) Homeostasis
 (b) Wound Healing
 (c) Ovaries and Ovarian Cycle
 (d) Hearing Mechanism
 (e) Peristalsis