



(3 Hours)

Sem-III BIOM HAP 2011

7/12/11

(BIOM)

- N.B (1) Question No. 1 is **Compulsory**.
 (2) Attempt any **four** questions out of remaining six.
 (3) Figures on the right indicate full marks.
 (4) Draw diagrams / sketches wherever necessary.
 (5) Use legible handwriting. Use blue / black ink only.
- Q.1. (a) Differentiate between systemic and pulmonary circulation. [05]
 (b) Explain functions of skin. [05]
 (c) What is meant by spermatogenesis? [05]
 (d) Explain with a neat diagram structure of spinal cord. [05]
- Q.2. (a) Which are the different types of tissues of the body? [10]
 (b) What is Einthoven triangle? Which are the different leads of ECG? [10]
- Q.3. (a) What are the different lung volumes and capacities? Explain with a neat Diagram. [10]
 (b) Explain with a neat diagram external respiration. [10]
- Q.4. (a) Draw and label a typical human cell and explain functions of any four important organelles. [10]
 (b) Discuss the anatomy of kidney and explain glomerular filtration in detail. [10]
- Q.5. (a) Describe the structure of stomach and small intestine. [10]
 (b) With a neat diagram explain the structure of neuron. [10]
- Q.6. (a) Explain with a neat diagram different phases of action potential. [10]
 (b) Which are the different lobes of the cerebrum. List functions of each lobe. [10]
- Q.7. Write short notes on, [20]
 (a) Peristalsis
 (b) Spermatogenesis
 (c) Functions of CSF
 (d) Rods and Cones.