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Total No. of Printed Pages: [01]

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B. Sc. (Operation Theater Technology) (Semester – 2nd)

HUMAN ANATOMY & PHYSIOLOGY- II

Subject Code: BOTTS1-201

Paper ID: [20131905]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. What are the parts of neuron?
- b. Define synapse
- c. write the components of reflex arc
- d. List the functions of CSF.
- e. What factors affect oxy-hemoglobin dissociation curve?
- f. What are the types of hypoxia?
- g. Name the cranial nerves
- h. List the functions of hypothalamus
- i. Types of diabetes mellitus
- j. Micturition reflex

Section – B

(5 marks each)

- Q2. What is GFR? Discuss factors affecting glomerular filtration rate.
- Q3. Compare sympathetic and parasympathetic nervous system.
- Q4. Discuss in brief menstrual cycle.
- Q5. Discuss the disorders of hypo and hypersecretions of thyroid hormones
- Q6. Discuss structure of spinal cord

Section – C

(10 marks each)

- Q7. Discuss the structure of nephron and counter current mechanism.
- Q8. Name the endocrine glands. Discuss the structure and role of hormones secreted by pituitary gland
- Q9. Explain lung volumes and capacities. Add a note on factor affecting vital capacity.