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Total No. of Printed Pages: [01]

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**B.Sc. Operation Theater Technology
(Semester -IInd)
HUMAN ANATOMY & PHYSIOLOGY -II
Subject Code: BOTTs1201
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) Cyanosis.
- b) CPR.
- c) Meninges.
- d) CSF.
- e) Autonomic nervous system.
- f) Counter current mechanism.
- g) Epididymis.
- h) Function of Pituitary gland.
- i) Gross structure of testis.
- j) Micturition reflex.

Section – B **(5 marks each)**

- Q2. What is hypoxia? Give its effects and types.
- Q3. Define Reflex Action. Explain structure of Reflex Arc.
- Q4. Give structure and functions of Kidney. What is GFR?
- Q5. Explain stages of spermatogenesis and function of Estrogen & Testosterone.
- Q6. Classify endocrine glands and their hormones.

Section – C **(10 marks each)**

- Q7. Discuss anatomical components of Respiratory system. What is Lung volume and vital capacity?
- Q8. Explain the anatomy of brain with diagram. Give functions of cerebrum and cerebellum.
- Q9. Give detailed account of anatomy and physiology of female reproductive system.