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MANIPAL INSTITUTE OF TECHNOLOGY
(A constituent unit of MAHE, Manipal 576104)

III SEMESTER B.Tech. (BME) DEGREE MAKE-UP EXAMINATIONS, DEC/JAN 2018-19

SUBJECT: ANATOMY AND PHYSIOLOGY(BME 2105)

Monday, 31st December 2018, 9 AM to 12 NOON

TIME: 3 HOURS

MAX. MARKS: 50

Instructions to Candidates:

- 1. Answer all questions from PART A and PART B. Use separate answer books for PART A and PART B.**
- 2. Draw labeled diagram wherever necessary**

PART-A ANATOMY (Max.Marks: 25)

- 1) (i) Enumerate the parts of the urinary system. **2+3**
(ii) Write a note on the external features of the right kidney
- 2) Draw a neat labelled diagram of a typical neuron. **5**
- 3) Write a note on stomach. **5**
- 4) Describe the external features of the following **2+3**
(i) Uterus (ii) Fallopian tube.
- 5) Name and describe the different types of epithelium. **5**

PART-B PHYSIOLOGY (Max. Marks: 25)

- 1)** What are the functions of platelets? Discuss any one in detail. **5**
- 2)** Explain “excitation contraction coupling” in skeletal muscle. **5**
- 3)** (i) What are the forms in which carbon dioxide is transported? Discuss any one in detail. **3+2**
(ii) Draw neat labeled diagram of electrocardiogram. Mention the causes of each.
- 4)** (i) Define blood pressure. What is the normal value? What are the determinates on blood pressure? **3+2**
(ii) Draw a neat labeled diagram of cross section of the Eye.
- 5)** (i) Enumerate the features of Parkinson’s diseases. **3+2**
(ii) Mention two descending tracts of spinal cord.