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MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal 576104)

1st SEMESTER M.Tech. (BME) DEGREE END SEM. EXAMINATIONS, NOV/DEC, 2018.

**SUBJECT: ANATOMY AND PHYSIOLOGY (BME 5101)
(REVISED CREDIT SYSTEM)**

Tuesday, 20th November 2018: 2 PM to 5 PM

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 respiratory system. 2+3

(ii) Name the surfaces and borders of left lung.
- 2) Write a note on the cerebrospinal fluid (CSF) circulation. 5
- 3) Write a note on the urinary bladder. 5
- 4) List the difference between thin and thick skin. 5
- 5) Write a note on pancreas. 5

PART-B. PHYSIOLOGY (Max. Marks: 25)

- 1)** What are the functions of RBC. Discuss anemia. **5**
- 2)** Draw a neat labelled diagram of Neuro Muscular Junction. Mention steps in Neuro Muscular Transmission. **5**
- 3)** (i) Discuss counter current multiplier system in concentration of urine. **3+2**
(ii) Draw a neat labelled diagram of Nephron. What are the two different types Nephrons?
- 4)** (i) Define Blood pressure. What is its normal value? What are the determinants of blood pressure? **3+2**
(ii) Draw a neat labelled diagram of cross section of the Eye.
- 5)** (i) Mention features of cerebellar lesion. **3+2**
(ii) Mention two ascending tracts.