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**MANIPAL INSTITUTE OF TECHNOLOGY**

(A constituent unit of MAHE, Manipal 576104)

**III SEMESTER B.TECH. (BME) DEGREE END SEMESTER EXAMINATIONS NOV-DEC 2020**

**SUBJECT: ANATOMY AND PHYSIOLOGY (BME 2152)**

(REVISED CREDIT SYSTEM)

**March 10, 2021 : 9 To 12 Noon**

**TIME: 3 HOURS**

**MAX. MARKS: 50**

**Instructions to Candidates:**

- 1. Answer FIVE full questions.**
- 2. Draw labeled diagram wherever necessary**

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|---|----------|
| 1A. Name the different types of epithelium with one example for each.   | <b>5</b> |
| 1B. Write a note on external features of left lung.   | <b>3</b> |
| 1C. Enumerate the parts of gastrointestinal tract (GIT).  | <b>2</b> |
| 2A. Write a short note on uterus.   | <b>5</b> |
| 2B. Write a note on spinal cord.  | <b>3</b> |
| 2C. Name the salivary glands and their secretion.   | <b>2</b> |
| 3A. List the difference between sympathetic and parasympathetic nervous system.   | <b>5</b> |
| 3B. With the help of a diagram, explain the cross bridge cycling in skeletal muscle.  | <b>3</b> |
| 3C. Enumerate the factors affecting erythropoiesis.   | <b>2</b> |
| 4A. Draw a labelled diagram of a multipolar myelinated neuron and explain the conduction of action potential in myelinated nerve fibre. | <b>5</b> |
| 4B. Draw a labelled diagram of Electrocardiogram (ECG) and mention the causes of different waves.                                       | <b>3</b> |
| 4C. Define accommodation of eye. Explain the cause & correction of myopia.  | <b>2</b> |

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| 5A. | With the help of graph, explain the mechanism of inspiration & expiration (5) | <b>5</b> |
| 5B. | Describe the counter current mechanism in kidneys.                            | <b>3</b> |
| 5C. | List out the functions of Basal Ganglia.                                      | <b>2</b> |

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