Reg. No.					



III SEMESTER B.Tech. (BME) DEGREE MAKE-UP EXAMINATIONS, DECEMBER 2017.

SUBJECT: ANATOMY AND PHYSIOLOGY (BME 2105) Saturday, 30th December 2017, 9 AM to 12 NOON

TIME: 3 HOURS MAX. MARKS: 100

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: 50)

Describe the sulci gyri on the supero-lateral surface of the cerebrum. Add a note on 5+5 1) its functional areas. Enumerate the parts of the male reproductive system. Add a note on the testis. 2) 3+7 Write a note on the following 3) 5+5 (i) Structure of the Typical Neuron (ii) Cerebrospinal fluid (CSF) circulation Describe the anatomy of the following. 4) 5+5 (i) Right lung (ii) Pancreas Describe the anatomy of the following. 5) 5+5 (i) Left Kidney. (ii) Lymph node.

BME 2015 Page **1** of **2**

PART-B PHYSIOLOGY (Max. Marks: 50)

1a)	Discuss 'Excitation Contraction Coupling' in skeletal muscle.	7
1b)	Write briefly on glial cells.	3
2a)	Draw a neat labelled diagram of nephron and what are the two types give the differences.	4+3
2b)	Define GFR glomerular filtration rate.	3
3a)	Define blood pressure. What is the normal value? Mention short term regulation of BP.	2+5
3b)	Mention factors influencing venous return.	3
4a)	What are the forms in which CO ₂ is transported? Discuss any one of them.	2+5
4b)	Write briefly on cyanosis.	3
5a)	What are the errors of refraction and how each I Corrected?	7
5b)	Mention three ascending tracts of the spinal cord. Draw the pathway of any one.	3

BME 2015 Page **2** of **2**