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Roll No. ....

**C-53**

**B. Tech. EXAMINATION, Dec. 2017**

(Third Semester)

(B. Scheme) (Main/Re-appear)

(BME)

BME-205-B

HUMAN ANATOMY & PHYSIOLOGY

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit.

(2-01/5) M-C-53

P.T.O.

### Unit I

1. Briefly explain the following :
  - (a) Homeostatics
  - (b) Eleven systems of Human Body
  - (c) Human Body Planes and Sections. **5×3**
2. (a) Explain the process of polarization and depolarization of cell. **10**  
(b) Explain the structure and functions of Epithelial membrane. **5**

### Unit II

3. Draw neat and labelled diagrams of the following :
  - (a) Heart
  - (b) Alimentary System. **15**
4. Write technical notes on the following :
  - (a) Composition of blood
  - (b) Exchange of gases in alveoli
  - (c) Artificial respiration. **5×3**

### Unit III

5. (a) Explain the structure of nephron and formation of Urine. **10**  
(b) Describe the functions of Kidney. **5**
6. Describe the different parts and functions of sympathetic nervous system. **15**

### Unit IV

7. Elaborate the various endocrine gland, their secretions and functions. **15**
8. Explain the structure of eye and ear in detail. **15**