

No. of Printed Pages : 03

Roll No.

D-52

B. Tech. EXAMINATION, May 2018

(Fourth Semester)

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

(BME)

BME204B

BIOMEDICAL EQUIPMENTS-I

Time : 3 Hours]

[Maximum Marks : 75

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.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Draw a neat and clean diagram if required.

(3-65/3) M-D-52

P.T.O.

Unit I

1. Explain basic audiometer. Give detail of pure tone audiometer and speech audiometer.
2. What is automated Biochemical analysis system ?

Unit II

3. What are various methods of cell counting ? Explain automatic recognition and differential counting of cells with diagram.
4. Explain with diagram :
 - (a) Cardiac monitors
 - (b) Heart and pulse rate meter.

Unit III

5. Explain principle, working of oximetry. What is intravascular oximeter ?
6. Explain Ultrasound Blood flow meter in detail.

Unit IV

7. What is Blood Gas Analyzer ? How blood PO₂ measured ?
8. Write short notes on any *two* of the following :
 - (a) Bed Side Monitor
 - (b) Electrical Safety Analyzer
 - (c) Blood Flow meter.