

No. of Printed Pages : 03

Roll No.

H-101

B. Tech. EXAMINATION, May 2018

(Eighth Semester)

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

(BME)

BME402B

INNOVATIVE BIOMEDICAL ENGINEERING

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. All questions carry equal marks.

(3-37/11)M-H-101

P.T.O.

Unit I

1. Define innovation. Discuss the various types of innovation. Give suitable examples. **15**
2. Discuss the various innovation practices in healthcare. How the industry has evolved during the process ? **15**

Unit II

3. What are the characteristics of designing process ? Discuss the essentials and causes of a product development. **15**
4. Discuss the significance and planning strategy for device development depending upon market conditions. **15**

Unit III

5. Write technical notes on the following : **15**
 - (a) Abicor Artificial Heart
 - (b) Bio-Artificial Liver.

6. Discuss some of the latest innovations in Biomedical Engineering. **15**

Unit IV

7. Explain the role of Government funding agencies in promotions of innovation ideas. **15**
8. Discuss the role of NGOs and healthcare industry in innovation practices. **15**