# **Question Paper Code: 92B05**

## B.E. / B.Tech. DEGREE EXAMINATION, JUNE 2021

#### Second semester

### **Biomedical Engineering**

#### 19UBM205- INTRODUCTION TO BIOMEDICAL ENGINNERING

(Regulation 2019)

Duration: 1.45 hour Maximum: 50 Marks

### PART A - $(10 \times 2 = 20 \text{ Marks})$

### (Answer any TEN of the following questions)

1. Define Biomedical Engineering.	CO1-U
2. What are the trends in the evolution of health care?	CO1-U
3. Expand and Define SDOH.	CO1-U
4. Explain self adopting processor.	CO2-Ana
5. Draw the structure of Neuron with parts.	CO2-U
6. Explain Needle Electrode system.	CO2-Ana
7. Define Clinical Engineering	CO3-U
8. How equipment planning is carried out?	CO3-U
9. What are the elements of the consent form in clinical trials?	CO3-U
10. Compare Robots and humans	CO4-A
11. Explain some of the bio-manufacturing products.	CO4-A
12. List out the types of medical imaging equipments.	CO4-U
13. Expand and explain ABI, AMI.	CO5-U
14. What are the potential uses of stem cell?	CO5-U
15. Why VR is essential?	CO5-U

## PART - B (3 X 10 = 30 Marks)

## (Answer any THREE of the following questions)

16. Describe the Biomedical Profession based on their specialization.	CO1-U
17. Explain the anatomy and physiology of Human Body organ system.	CO2-na
18. Write a brief note on GCP.	CO3-U
19. Discuss the overview of organ fabrication and Bio-manufacturing.	CO4-E
20. Explain the workflow of genetic modification.	CO5-U