

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: UB602

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Biomedical Engineering

21BMV602- TELEHEALTH TECHNOLOGY

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1. Define tele-care and its importance . CO1- U
2. Identify the need and purpose of telesurgery CO1- U
3. Classify the various types of mobile switching center CO1-U
4. Define ubiquitous healthcare CO1-U
5. Define HIPAA CO1-U
6. Categorize the jurisdictional issues of telemedicine CO1-U
7. List out the goals and objectives of PACS CO1-U
8. Categorize the key aspects of DICOM. CO1-U
9. Define tele dermatology CO1-U
10. Write the need for telecardiology in healthcare CO1-U

PART – B (5 x 16= 80Marks)

11. (a) Analyze the evolution of telemedicine technologies from basic video conferencing CO3 -Ana (16)
Or
(b) Describe the importance of tele education with an example. CO3 - Ana (16)
12. (a) Analyze the types of information & communication infrastructure for telemedicine. CO3 - Ana (16)
Or

- (b) Explain the technologies employed in GSM satellite for communication system.. **CO3 - Ana** (16)
13. (a) Categorize the ethical and legal aspects of telemedicine. **CO3 - Ana** (16)
Or
(b) Analyze the importance of consent treatment. **CO3 - Ana** (16)
14. (a) Analyze workflow optimization in radiology information system. **CO3 - Ana** (16)
Or
(b) Elaborate the technical issues of picture archiving system. **CO3 - Ana** (16)
15. (a) Explain the working of Teleradiology and its working. **CO1 - U** (16)
Or
(b) Explain the working of telecardiology with the application of single lead ECG. **CO1 - U** (16)