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Question Paper Code	12558
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Eighth Semester

Electronics and Instrumentation Engineering

20EIEL804 - TELE HEALTH

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. Distinguish between telehealth and telecare.	2	K2	CO1
2. List out the different types of telemedicine.	2	K1	CO1
3. Write short notes about POTS system.	2	K1	CO2
4. Identify the suitable method for digitizing the patient report in paper format.	2	K2	CO2
5. List out the conditions for patient infringement.	2	K2	CO3
6. Write short notes on intellectual property rights.	2	K1	CO3
7. Distinguish between image tracking and patient tracking in RIS system.	2	K2	CO4
8. Illustrate the applications of Electronic Patient Record (EPR).	2	K1	CO4
9. Summarize the applications of telepathology.	2	K1	CO5
10. Distinguish the technology used between teleradiology and PACS.	2	K2	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) i) Discuss in detail about the history of telemedicine.	7	K2	CO1
ii) Illustrate the functions of telecare and telehealth.	6	K2	CO1
OR			
b) i) List and analyze the issues and challenges associated with telehealth.	7	K2	CO1
ii) Describe the various components of telemedicine.	6	K2	CO1
12. a) Discuss in detail about the information types and transmission of text, data, audio and still images.	13	K2	CO2
OR			
b) Describe the telecommunication process of Public Switched Telephone Network (PSTN), ISDN and GSM Satellite.	13	K2	CO2
13. a) Illustrate the functions of UK Data Protection Act and UK computer misuse Act for maintaining the data protection and security.	13	K2	CO3

OR

- b) Describe the functions of confidentiality and the law, and patient– doctor relationship. 13 K2 CO3
14. a) Compare the workflow of report for inpatient chest radiograph before and after PACS. 13 K2 CO4

OR

- b) Describe the functions of DICOM in the medical imaging techniques. 13 K2 CO4
15. a) i) Discuss in detail about the working principle of teleradiology. 7 K2 CO5
ii) Illustrate the applications of telepathology. 6 K2 CO5

OR

- b) Describe the working principle of e health and Cyber Medicine. 13 K2 CO5

PART - C (1× 15 = 15 Marks)

16. a) Discuss in detail about the applications of telecardiology and teleoncology. 15 K2 CO5

OR

- b) Describe the medical applications of teledermatology and telesurgery. 15 K2 CO5