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**Reg. No. :**

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**Question Paper Code: 59B15**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Biomedical Engineering

15UBM915 – TELEMEDICINE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Which of the following situations is not considered part of telemedicine? CO1 R  
(a) Transmission of still images (b) Word processing  
(c) Video conferencing (d) Remote monitoring of vital signs
- Which of the following is not an example of Telemedicine technologies CO1- R  
(a) Wireless and Broadband (b) Internet  
(c) DC motors (d) Satellite Databases
- \_\_\_\_\_ refer to the transmission of digital data between two or more computer. CO2- R  
(a) Data communication (b) Switch (c) Telephone (d) None of the above
- Electronic document containing \_\_\_\_\_ CO2- R  
(a) ASCII (b) Unit code (c) Division (d) Both a and b
- H7 standards focus on the application layer, which is \_\_\_\_\_ CO3- R  
(a) "layer 7" (b) "layer 7.5" (c) "layer 8" (d) "layer 9"
- TCP/IP protocols focus on the application layer, which is \_\_\_\_\_ CO3- R  
(a) "layer 7" (b) "layer 7.5" (c) "layer 8" (d) "layer 9"

7. Teleradiology is the transmission of radiological patient images, such as \_\_\_\_\_ CO4- R  
 (a) X-rays (b) CTs (c) MRIs (d) All the above
8. \_\_\_\_\_ referred as process of communication. CO4- R  
 (a) Interpretation (b) Orientation (c) Relationship (d) Community
9. Legal issue is also called as? CO5- R  
 (a) Interpretation (b) Court's decision (c) Issue of law (d) Issues
10. \_\_\_\_\_ is considered a basic patient right. CO5- R  
 (a) Interpretation (b) Communication (c) Informed consent (d) Issues

PART – B (5 x 2= 10 Marks)

11. Compare the differences between telehealth and telecare. CO1- R
12. Differentiate between wireless & satellite communications. CO2- Ana
13. Mention the functions of protocol. CO3- R
14. Classify the conditions managed by neurologists in telemedicine. CO4- Ana
15. Give the possible causes for Tele medical malpractice. CO5- R

PART – C (5 x 16= 80 Marks)

16. (a) Explain the functional Diagram of telemedicine. CO1- U (16)  
 Or  
 (b) Brief notes of History and evolution of telemedicine. CO1- U (16)
17. (a) Give a brief introduction about multimedia & explain its principle. CO2- U (16)  
 Or  
 (b) Paraphrase about internet technology in telemedicine using www. CO2- U (16)
18. (a) Discuss the protocols used by the TCP/IP Model. Compare with OSI / ISO. CO3- App (16)  
 Or  
 (b) Explain the mechanism involved in data security & standards. CO3- App (16)

19. (a) State autoradiography. Explain its whole function. CO4- U (16)
- Or
- (b) Explain in detail Telepsychiatry and Teledermatology. CO4- U (16)
20. (a) Discuss about the Intellectual Property Rights related to telemedicine. CO5- U (16)
- Or
- (b) Examine how security and privacy are supported in the health record. CO5- U (16)

