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**Question Paper Code: 99B72**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Open Elective

Civil Engineering

19UBM972- COMPUTER APPLICATIONS IN MEDICINE

(Common to CSE,EEE, ECE, MECH, IT ,CSBS, Chemical and Agriculture Engineering branches)

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1. Describe Basic Input Output System CO1- U
2. Give a short notes on POST CO1- U
3. List out the types of keyboard interface CO2- U
4. Give a short notes on cache memory CO2- U
5. Define data acquisition CO3- U
6. Give a brief notes on medical information retrieval CO3- U
7. What is meant by computer based testing? CO1- U
8. Define computer assisted Instruction CO1- U
9. Define health online CO1- U
10. Explain about clinical simulation in computer assisted Instruction CO1- U

PART – B (5 x 16= 80Marks)

11. (a) Describe the hardware components in Personal Computer in detail CO1- U (16)  
Or  
(b) Explain the various types of communication devices in externally CO1- U (16)
12. (a) Describe the various types of buses used in personal computer CO2- U (16)  
Or  
(b) Explain the various types of communication ports in externally connected in computer CO2- U (16)

13. (a) Analyze the data acquisition by using serial interfaces with neat diagram CO3-Ana (16)  
Or  
(b) Explain the history of MEDLARS from starting date to upto date in detail CO3-Ana (16)
14. (a) Explain in detail about Virutal Human project CO4- App (16)  
Or  
(b) Elaborate the steps involved in computer assisted Instruction. CO4- App (16)
15. (a) Give a brief note on Clinical notes used in patient education CO1- U (16)  
Or  
(b) Explain in detail about patient self management education CO1- U (16)