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**Question Paper Code: 99B72**

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

Open Elective

Civil Engineering

19UBM972- COMPUTERS APPLICATION IN MEDICINE

(Common to CSE,EEE, ECE, MECH, IT , Chemical and Agriculture Engineering branches)  
(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

- |   |        |
|---|--------|
| 1. Explain storage devices?   | CO1- U |
| 2. Draw the computer block diagram?   | 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. How the clinical notes are stored in computer assisted instruction?      | CO5- U |
| 10. List out the types of electronic communication methods used in patients | CO5- U |

PART – B (5 x 16= 80Marks)

- |   |         |      |
|---|---------|------|
| 11. (a) Draw the Block diagram of a Personal Computer and explain each blocks?            | CO1- U  | (16) |
| Or  |         |      |
| (b) Explain how to interaction the disk operating system?                                 | 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) Describe in detail about the patient description notes used in clinical technique CO2- U (16)
- Or
- (b) Give an account of computers in the use of critically ill patients CO2- U (16)