QP CODE:106018 Reg. No:

First Year B.Sc (MRT) Degree Supplementary Examinations September 2023

Computer Science

Time: 3 Hours Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay (2x20=40)

- 1. Describe the working of pass by value and pass by reference. Write a C program to sort names of 'N' students stored in an array using pass by reference method.
- 2. Explain different applications of Health Information Technology and highlight the opportunities and challenges.

Short notes: (8x5=40)

- 3. List different types of multiprocessor operating systems, give any two examples.
- 4. What are the advantages of using a DBMS.
- 5. Explain viruses and different types of viruses.
- 6. Differentiate between global and static variable in C.
- 7. Difference between structure and union data type in C.
- 8. Explain LAN, MAN and WAN.
- 9. Explain with example two pre-processor directives in C programming.
- 10. Types of IPR and its advantages.

Answer briefly: (10x2=20)

- 11. List four file handling commands in Linux.
- 12. Define distributed system.
- 13. What are the basic data types associated with C.
- 14. Explain a pointer in C programming language.
- 15. Explain a static variable in C.
- 16. Define DBMS.
- 17. Functions of a firewall.
- 18. Differentiate input and output devices.
- 19. List two advantages of wireless networks.
- 20. PACS.
