

First Year B.Sc (MRT) Degree Supplementary Examinations March 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. (a) Explain about file and directory system concept in DOS and discuss any four DOS commands for file and directory management.

(b) Explain with the help of an example difference between structure and union in C programming language. (10+10)
2. (a) Discuss various primary and secondary storage in detail.

(b) Explain the advantages and challenges in health information technology. (10+10)

Short notes:**(8x5=40)**

3. Different parts of digital computers with neat diagrams.
4. Functions of DBMS and discuss retrieval of data from a relational database.
5. What is an array. Describe the syntax for declaring a single and multidimensional array.
6. Classify the various types of OS.
7. Difference between intranet and extranet.
8. Explain mechanisms of Dynamic memory allocations in C.
9. Write a C program for finding a maximum of 3 numbers.
10. Write notes on social, economical, and ethical perspectives of IT.

Answer briefly:**(10x2=20)**

11. 'Extern' storage class in C.
12. What is RDBMS.
13. Use of Network Interface Card.
14. Use of wireless networks with examples.
15. Give the difference between static and dynamic ram.
16. What is firmware.
17. Explain the component of an OS.
18. What is real-time OS.
19. What are the directives used in C programming.
20. Distinguish between unary and ternary operators
