

**First Year B.Sc (MRT) Degree Regular/Supplementary Examinations
March 2024**

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) Discuss various primary and secondary storage in detail.
(b) What is a flow chart. Draw a flowchart to find the largest number from a given list of 'n' numbers. (10+10)
2. (a) What are pointers in C. Write a C program to add five numbers using pointers.
(b) Explain in detail its advantages and challenges of Health Information Technology. (10+10)

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

3. Difference between system software and application software with suitable example.
4. What are the services of an OS.
5. Explain conditional control structures used in C.
6. What do you mean by dynamic memory allocation give examples.
7. What is the difference between structure and union.
8. Write a program to reverse a string.
9. Discuss IPR and its implications.
10. Explain various online learning platforms in detail.

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

11. Micro and Mini Computers.
12. List advantages of Wireless networks.
13. Define Ternary operators and give example.
14. What is the difference between static and global variable.
15. Distinguish between arithmetic and logical operators.
16. What is a proxy server.
17. What is www.
18. Time sharing OS.
19. Functions of a Firewall.
20. Write notes on E-Commerce.
