

**First Year B.Sc (MRT) Degree Supplementary Examinations March 2026
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) Draw a flow chart to find the smallest value among three input values.
b) Explain any two features of DOS operating system. Explain the following commands in DOS: DIR, CD and COPY.
c) Explain about Health Information Technology in detail. (6+7+7)
2. a) Write a C program using structures to store and display information of students in a college. Each student has the following details:
 - Roll Number
 - Name
 - Department
 - Course
 - Year of joining

It must be possible to display the details of all students as well as of a particular student when given the student's roll number.

- b) Explain if, switch and looping constructs in C programming language with examples of each. (10+10)

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

3. Write an RDBMS - SQL SELECT query to retrieve the name and age columns from a table named students where the age is greater than 18.
4. Differentiate between a LAN and a WAN based on their geographical coverage and provide one example for each.
5. Explain any three functions in Excel. What is the difference between Portrait and Landscape page orientation.
6. Write a program to read 'n' number of integers into an array. Then enter a key value and check if it is present in the n integer values stored in the array. Print appropriate message as output.
7. Explain pass by reference and pass by value with suitable example for each.
8. Explain any two types of operating system in detail.
9. Explain Storage Classes in C programming language with examples.
10. Explain search engine and world wide web in detail.

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

11. Explain any two uses of computer network in detail.
12. What is an operating system. Explain resource management performed by operating system.
13. What is a union in C programming language.
14. Explain the int data type in C. What is its size.
15. What is a recursive function. Explain any one property of recursive function.
16. Explain any one applications of information technology in providing patient prescription.
17. Define Telemedicine.
18. What is the role of Electronic Medical Records (EMR) in healthcare.
19. What is a pointer in C. When is a pointer used in programs.
20. Explain File and Directory System in brief.
