

QP CODE:106018

Reg. No:

**First Year B.Sc (MRT) Degree Supplementary Examinations
September 2021**

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. What are the different types of OS, explain each with example. Describe the use of RAM and ROM in booting an operating system in a computer.
2. Describe the working of pass by value and pass by reference. Write a C program to add three matrices using pass by reference method.

Short notes:

(8x5=40)

3. Differentiate between primary memory and secondary memory.
4. The difference between DBMS and RDBMS.
5. Explain viruses and different types of viruses.
6. Explain multi-dimensional array with an example.
7. Differences between pass by value and pass by reference.
8. Compare and contrast intranets and extranets.
9. Enumerate HIT advantages and challenges.
10. Mechanisms of dynamic memory allocation in C.

Answer briefly:

(10x2=20)

11. Explain time-sharing operating system.
12. What are the advantages of distributed systems.
13. Describe the header file and its usage in C programming.
14. Explain enum data type in C.
15. Explain a pre-processor.
16. Define system and application software.
17. Explain a LAN.
18. What are storage devices, give examples.
19. Explain an IP address give an example.
20. List four file handling commands in Linux.
