

**First Year B.Sc (MRT) Degree Supplementary Examinations March 2018**

**Computer Science**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x20=40)**

1. Explain in detail the functions and types of operating system.
2. What are the different data types available in C. Describe a C program to sort 'n' numbers stored in an array.

**Short notes:**

**(8x5=40)**

3. Use of RAM and ROM in booting a computer.
4. Modems and how it help in connecting internet.
5. Difference between multi-programmed and time shared systems.
6. List three differences between linux and windows operating systems.
7. What are pre-processor directives in C programming
8. Use of static and global variables in C programming.
9. Different mechanisms of online learning.
10. Viruses and its types.

**Answer briefly:**

**(10x2=20)**

11. Optical disk
12. SMPS
13. List four DOS commands for file operations.
14. Use of word and writer.
15. Variables and constants in C.
16. List four data types in C.
17. Unary operator with example in C.
18. 'Auto' storage class in C.
19. Real time operating system.
20. PACS

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