First Year B.Sc (MRT) Degree Examinations August 2018

Computer Science

Time: 3 Hours   **Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay   **(2x20=40)**

1. Explain the concept of DBMS and how RDBMS helps in storage and retrieval. Explain with the help of an example difference between structure and union and Enum data type in C programming language.   (10+10)

2. Explain different types of operating systems with neat diagrams. Explain pointers and strings in C with suitable examples.   (10+10)

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

3. Explain with example single and multidimensional arrays in C.

4. List any five DOS commands with example for each

5. Use of DBMS storage and retrieval of data from a relational database.

6. Looping control structures used in C.

7. Algorithm for sorting 10 numbers stored in an array.

8. Proxy server and its use.

9. Significance of cyber laws and its relevance in today's cyber world.

10. Different parts of digital computers with neat diagram.

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

11. Mainframe and super computers

12. IPR and its implications in present scenario.

13. SMPS

14. List four DOS commands for file operations.

15. Use of writer and calc in linux OS.

16. Variables and constants in C.

17. List four data types in C.

18. Unary operator with example in C.

19. World wide web and internet.

20. Computers viruses and their impact.

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