

QP CODE:106018

Reg. No:

**First Year B.Sc (MRT) Degree Regular/Supplementary Examinations
March 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 computer networks. What are the components of an operating system.
2. Explain in detail with example different looping mechanisms in C. Write a C program to check whether the number n is palindrome or not

Short notes:

(8x5=40)

3. Differences between system software and application software with examples.
4. LAN, MAN and WAN
5. What are the services provided by operating system
6. How is variables are declared and initiated in C
7. Conditional statements in C.
8. Explain the need of dynamic allocation of memory
9. Differences between pass by value and pass by reference.
10. Explain with suitable diagram how firewalls provide security.

Answer briefly:

(10x2=20)

11. List out the storage devices
12. List advantages of networking
13. Explain the use of Excel of the MS-office package
14. Explain multi programming
15. Examples of pre-processors in C
16. Explain the usage of pointers in C
17. What are static variables
18. Proxy server
19. Patient registries with example
20. Internet and intranet
