



QP CODE: 24026947



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2024**

Third Semester

B.Sc Electronics and Computer Maintenance Model III

Core Course - EM3CRT03 - OPERATING SYSTEM CONCEPTS

2017 Admission Onwards

90D319D3

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Why do you need an Operating System in a computer?
2. What is a system calls?
3. What are threads?
4. What is non Pre-emption?
5. What is mutual exclusion?
6. What is meant by a context switch?
7. What is internal Fragmentation?
8. Define the term page-fault trap.
9. What is global descriptor table?
10. Write a note on File Protection.
11. Define General Graph Directory.
12. Write a note on Counting.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. What are the advantages and limitations of multiprocessing system?
14. Explain schedulers.
15. What are the different CPU-scheduling criteria?
16. Write a note Resource Pre-emption.
17. Write a note on Page Table.
18. What is dynamic linking and shared libraries?
19. Write a note on Demand Paging.
20. Write a note on Tree-Structured Directories.
21. Explain Allocation Methods-Contiguous and Linked allocation.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the different Operating system components in detail.
23. What is a Deadlock? Explain its prevention and avoidance methods.
24. Explain Page Replacement with FIFO, LRU, LRU Approximation algorithms.
25. Explain different File Access Methods in detail.

(2×15=30)

