QP CODE: 24027877

24027877

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2

Third Semester

B.Sc Cyber Forensic Model III

Core Course - CF3CRT05 - OPERATING SYSTEMS AND SYSTEM SOFTWARE

2019 Admission Onwards

95F8615E

Time: 3 Hours Max. Marks

Part A

*Answer any **ten** questions.*

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

1. Define simple structure of an operating system.
2. What is kernel of an operating system?
3. What is semaphores?
4. What is safe state?
5. What is the various Page Replacement Algorithms used for Page Replacement?
6. What is mean by stable storage?
7. What is a software?What are different types of software?
8. What is an assembler?
9. What are expansion time variables?
10. What is a Linker?
11. What are Relocatable programs?
12. What informations should the assembler give to the direct linking loader for performing Relocation?

(10×2

Part B

*Answer any **six** questions.*

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

13. Differentiate Job scheduling and CPU Scheduling.
14. Compare hard and soft real time systems.
15. What are the operations on processes?
16. Explain communication in client server systems.
17. Explain the advantages and disadvantages of segmentation.

18. What is linked allocation what are the advantages of linked allocation?

19. What is the difference between macro and functions?

20. Explain a)Dynamic binder b) Design of an absolute loader.

21. Explain Syntax analysis and Semantic analysis phase of a compiler.

(6×5

Part C

*Answer any **two** questions.*

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

22. Explain different functions of an operating system.

23. Explain different CPU scheduling algorithms.

24. Explain contiguous memory allocation.Explain different fragmentation problems. Explain one technique to solve this problems.

25. Explain the task performed by passes of a two pass assembler.

(2×15