B.Sc DEGREE (CBCS) EXAMINATION, MAY 2019

Fourth Semester

B.Sc Mathematics Model II Computer Science

Vocational Course - CA4VOT04 - COMPUTER SCIENCE - OPERATING SYSTEM

2017 Admission onwards

E6FE4146

Maximum Marks: 80   **Time: 3 Hours**

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. What are the functions of OS

2. Mention any 2 different types of OS?

3. How does OS ensure security

4. Define a process

5. What are scheduling algoritms in OS

6. Define mutual Exclusion

7. What is multiple partition allocation

8. Define Segment table

9. Write down some file operations

10. What is direct access of a file

11. What are the features of encryption

12. Define trap door

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain personal computer OS and distributed OS

14. Explain feature of a real time OS

15. Explain Round -Robin scheduling algorithms with example

16. Explain resource allocation graph in deadlock

17. Explain the difference between compile time, load time and executable address binding

18. Explain hierarchial and hashed page table

19. Explain the use of search,delete,traverse and rename operations in a directory

20. What are the basic terminology of protection

21. How can we deal with threat monitoring

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain OS with its features? Explain different views of an OS

23. Explain different types of schedulers

24. With the help of directory structure , explain directory and directory operation

25. Explain different user authentication methods in detail

(2×15=30)