

No. of Printed Pages : 03

Roll No.

D211

B.C.A. EXAMINATION, May 2019

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA202B

OPERATING SYSTEM

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-06/1) M-D211

P.T.O.

Unit I

1. (a) Describe the working of time sharing operating system. **7**
(b) Describe the differences in workings of Simple operating and Real time operating system. **8**
2. What do you mean by operating system service? Describe various operating system services in detail. **15**

Unit II

3. Draw a neat diagram of PCB and explain its contents in details. **15**
4. With the help of examples explain working of SJF and Round robin scheduling algorithms. **15**

Unit III

5. What do you mean by indexed memory allocation in file management? Explain in details. **15**

6. What are various directory structures used by operating systems? Explain directory structure used by UNIX operating system. **15**

Unit IV

7. What is Critical Section Problem? Discuss, how semaphores can be used to solve dining philosophers problem. **15**
8. What is Page Fault? When would it occur? What are various algorithm for page replacement? **15**