

**B.C.A. 3rd Semester Full and Reappear
Examination, November-2023
INTRODUCTION TO OPERATING SYSTEM**

Paper-BCA-201

Time allowed : 3 hours]

[Maximum marks : 80

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

Note : Attempt five questions in all, selecting one question from each unit. **Question No. 1 is compulsory.**

1. (a) Real Time Operating System 4×4=16
(b) Define Shortest Job First. 15
(c) Explain Thrashing and how to overcome.¹
(d) Define Disk Structure.

Unit-I

2. (a) Define operating system with its components. 8
(b) What do you mean by operation on Process ? 8
3. Explain Inter-Process communication in detail. 16

97669-P-2-Q-9-(23)

[P.T.O.]

97669

<https://www.mdustudy.com>

<https://www.mdustudy.com>

Download all NOTES and PAPERS at StudentSuvidha.com

Unit-II

4. (a) Define Deadlocks Preventions with example. 8
(b) Explain Deadlocks Detection and Recovery. 8
5. Explain Scheduling. Also explain various scheduling algorithms. 16

Unit-III

6. (a) Write various contiguous memory allocation techniques. 8
(b) Explain Demand Paging. 8
7. Differentiate :
(a) Internal and External fragmentation. 8
(b) Logical and Physical Address. 8

Unit-IV

8. Explain Disk Scheduling Algorithms in detail. 16
9. What do you understand by Free Space Management? 16