

Roll No. ....

**97669**

**BCA 3rd Semester  
Examination – December, 2022**

**INTRODUCTION TO OPERATING SYSTEM**

**Paper : BCA-201**

**Time : Three 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. Write short note on following :** 16

- (i) Operating system
- (ii) FCFS
- (iii) Paging
- (iv) Disk structure

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**UNIT – I**

**2. Explain the following .** 16

- (i) Distributed System
- (ii) Real Time System

**3. Give a complete description about Inter-process communication.** 16

**UNIT – II**

**4. Define deadlock and its characteristics. Also explain about Banker's algorithm.** 16

**5. Define CPU scheduling and scheduling criteria. Also explain about Round Robin and queue algorithm.** 16

**UNIT – III**

**6. Explain the following :** 16

- (i) Segmentation
- (ii) Swapping

**7. Define paging. Explain page replacement algorithms in detail.** 16

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**UNIT - IV**

8. What do you understand by free space management  
Explain in detail 16
9. Define Disk structure Explain the following 16
- (i) C-Scan
  - (ii) C-Look