

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

97669-6600-(P-3)(Q-9)(22)

P. T. O.

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

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