

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

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