Roll No. : ....

Total No. of Questions : **9**]   [Total No. of Pages : **3**

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B.C.A. 3rd Semester (New) (Full & Reappear) Examination, March–2021

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* from each Unit. Question No. **1** is compulsory.

1. Explain the following :

    (i)   Real time systems

    (ii)   FCFS

    (iii)   Swapping

    (iv)   C-Look   16

Unit–I   16 each

2. Define Operating System. Explain its need and functions in detail.

3. Describe the following :

   (i) Operation on processes

   (ii) Inter-process communication

Unit–II   16 each

4. Define CPU Scheduling. Explain scheduling algorithms in detail.

5. Define Deadlocks. Explain different methods for handling deadlocks.

Unit–III   16 each

6. Explain the following :

   (i) Segmentation

   (ii) Paging

7. Describe the concept of virtual memory in detail.

Unit–IV   16 each

8. Define File. Explain file allocation methods in detail.

9. Explain in detail about Disk Scheduling.