

Roll No. ....

(b) What are the page replacement algorithmic? Explain.

**Unit-IV**

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8. What do you understand by file system structure? Describe the various types of allocation method.

9. What is disk-scheduling? Discuss the following disk scheduling methods with example.

- (a) FCFS
- (b) SSTF
- (c) LOOK
- (d) C-LOOK

**B.C.A. 3rd Semester (New)**  
**Examination – November, 2016**  
**Introduction to Operating System**

**Paper-BCA-201**

**Time : 3 hours**

**Max. 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 the examination.

**Note :** Attempt five questions in all by selecting one question from each unit. Q.1 is compulsory. All questions carry equal marks.

1. (a) What is real time system ?
- (b) What do you mean by process ?
- (c) What is deadlock ?

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(4)

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(1)

[ Turn Over

(d) What is swapping ?

(e) What is segmentation ?

(f) What is virtual memory ?

(g) What is Bit-vector?

(h) What is c-scan?

**Unit-I**

**ONLINE STUDY-CURU**

2. (a) what is an Operating System? Discuss the services provided by an operating system.

(b) Explain:

(i) Distributed system

(ii) Parallel System.

3. Explain the following :

(a) Threads and their uses

(b) Inter-Process Communication

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**Unit-II**

4. What do you mean by scheduling ? Explain various scheduling algorithms with example.

5. (a) Differentiate 'deadlock avoidance', 'deadlock prevention' and 'deadlock detection'.

(b) Describe Banker's algorithm.

**Unit-III**

6. (a) Discuss Logical and Physical address space.

(b) What is thrashing ? What causes thrashing? How do we overcome it? Explain.

7. (a) What do you mean by page replacement ?

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