

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

**Unit-IV**

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

Roll No. ....

**97669**

**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 ?

- (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

- 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

### 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 ?