

(iii) Thrashing

(iv) paging

UNIT – IV

8. Why disk scheduling is necessary ? Explain the various disk scheduling methods with example.
9. (a) Explain any *two* types of allocation method.
- (b) What do you mean by Linked List and Grouping ? Explain.

Roll No.

97669

BCA 3rd Semester (New)
Examination – November, 2017
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, by selecting *one* question from each Unit. Question No. 1 is *compulsory*. All question carry equal marks.

1. (a) What is distributed system ?
- (b) What is inter-process communication ?
- (c) What is bankers algorithm ?

(d) What is Virtual Memory ?

(e) What is Logical address space ?

(f) What is page replacement ?

(g) What is bit-Vector ?

(h) What is counting ?

UNIT - I

2. (a) What is an Operating System ? What are the responsibilities of an operating system ?

(b) Explain :

(i) Time-sharing

(ii) Real Time System

3. Explain the following :

(i) Threads and their uses

(ii) Process and process states

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UNIT - II

4. What is a scheduler ? What should be the performance criteria for a scheduler ? Compare and contrast importance scheduling techniques.

5. What do you mean by deadlock ? Explain deadlock prevention, avoidance and detection.

UNIT - III

6. What is a Swapping system ? Consider a swapping system in which memory of the following hole sizes in memory order: 10k, 4k, 20k, 18k, 7k, 9k, 12k and 15k.

Which hole is taken for successive request of :

(i) 12k

(ii) 10k

(iii) 9k for First-Fit, Best-Fit, Worst-Fit and Next-Fit.

7. Explain :

(i) Demand paging

(ii) Segmentation

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P. T. O.