(iii) Thrashing

(iv) paging

UNIT

8. Why disk scheduling essary ? Explain the various disk scheduling r ls with example.

9. (a) Explain any *two* typ llocation method.

(b) What do you mean b ed 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 Mer

(e) What is Logical add ace ?

(f) What is page replac ?

(g) What is bit-Vector ?

(h) What is counting ?

UN

2. (a) What is an Opera ystem ? What are the responsibilities of ar ating system ?

(b) Explain :

(i) Time-sharing

(ii) Real Time Syste

3. Explain the following :

(i) Threads and their u

(ii) Process and process

UNIT – II

4. What is a scheduler ? What should be the performance criteria for a scheduler ? Compare and contract 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 I5k. 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