BCA-II

Total Pages : 03

19013 **BCA/M-19** OPERATING SYSTEM BCA-201

Roll No.

Time : Three Hours] [Maximum Marks : 80

Note : Attempt Five questions in all, selecting at least one question from each Unit. Q. No. 1 is compulsory.

Compulsory Question

- Explain briefly historical evolution of operating 1. (a) system.
 - Write the necessary and sufficient conditions for (b) deadlocks.
 - between Internal and External Distinguish (c) fragmentation with example. 4
 - Discuss hierarchical and acyclic graph directory (d) structure.

Unit I

What is distributed operating system ? Explain 2. (a) different models of distributed O.S. 10

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- (b) What is system program ? Explain different categories of system program.6
- (a) Explain the concept of a process. What is the difference between process and program ? Also explain various processes states and their transitions.
 - (b) Explain various services of an operating system. 6
- 4. Explain various CPU scheduling policies by giving suitable example.

Unit II

- 5. (a) Describe Banker's algorithm by using example. 8
 - (b) List the approaches used for deadlock recovery. 8

Unit III

- Explain various process co-ordination problems and their solutions.
 16
- (a) Explain the concept of segmentation. Write the advantages and disadvantages of this method. 10
 - (b) What do you mean by Thrashing ? Explain. 6

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Unit IV

- Explain C-Scan and C-look disk scheduling with example. 6
- (b) Explain contiguous and linked allocation methods.
 - 10
- 9. (a) What do you mean by file protection ? Why we need file protection ?8
 - (b) Write short note on the disk structure. 8