2007 JAWAHARLAL NEHRU UNIVERSITY [JNU]
B.TECH ELECTRONIC & COMMUNICATION ENGINEERING
OPERATING SYSTEM

JUNE 2007

TIME : 3 HOUR
MARK : 80

ANSWER ANY FIVE QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS

1. With the help of neat block diagram, describe the computer components with an example.

2. (a) Explain the reasons for process terminations.

(b) Describe the single blocked queue and multiple blocked queues with an exam

3. Explain the various mechanisms provided by UNIX for inter process communication and synchronization in detail.

4. How the deadlocks can be avoided? Explain with the help of necessary algorithms.

5. (a) Enumerate the reasons for allowing two or more processes to, all have access to particular region of memory.

 (b) In a fixed partitioning scheme, what are the advantages of using unequal size partitions?

(c) What is the difference between internal and external fragmentation?

 (d) What are the distinctions among logical, relative and physical addresses?

6. (a) Discuss about various criteria used for short-term scheduling. (b) Discuss about fair share scheduling method.

7. (a) What do you understand by a ?le directory?

(b) Explain brie?y the information elements of a ?le directory

. (c) Explain what is tree-structured directory?

8. Write notes on:

(a) intrusion detection

(b) password protection.