DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2010.

PRINCIPLES OF OPERATING SYSTEM

(2003 onwards)

Time : Three hours　　　　　　　　Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a)　Describe the functions of system calls in process management. (10)

    (b)　Explain about Multiprogramming Operating Systems. (10)

2. (a)　Explain briefly about Inter Process Communication. (8)

    (b)　With an example explain critical section and semaphore. (12)

3. (a)　Discuss briefly about usage of interrupt handlers and device drivers. (14)

    (b)　What is deadlock? Explain its resources. (6)

4. (a)　Explain in detail about virtual memory management. (12)

    (b)　Discuss the importance of memory management. (8)

5. (a)　Explain the protection domain with neat diagram. (10)

    (b)　Discuss briefly about file system performance. (10)

6. (a)　Explain Multiple Queue scheduling. (8)

    (b)　Explain in detail about deadlock detection and recovery. (12)

7. (a)　Explain any two page replacement algorithms with suitable example. (12)

    (b)　What is file? Discuss the basic file operations. (8)

8. (a)　Explain about multiprogramming with fixed partition. (10)

    (b)　Discuss about the goal of I/O software. (10)