III Semester B.C.A. Examination, February 2011
OPERATING SYSTEM

Time : 3 Hours   Max. Marks: 80

***Instructions** : Answer **all** questions in Part – **A** and either (A) or (B) of **each** question in Part – **B**.*

PART – A

I. Answer **all** the questions :   (10×1=10)

1) What are the function of operating system ?

2) Define process.

3) What is Turnaround time ?

4) Define deadlock.

5) Define frames.

6) Define mutual exclusion.

7) Define multiprocessor system.

8) What is security ?

9) Define direct access.

10) Define file system mounting.

II. Answer **any 4** questions :   (5×4=20)

11) Explain about the services of operating system.

12) Describe the necessary condition of deadlock.

13) Discuss the structure of page table.

14) What are the file operations ?

15) What are the file access methods ?

16) Write short note on authentication.

P.T.O.

PART – B

I. Answer **all** the questions choosing either sub division (**A**) or sub division (**B**) of **each** question : **(10×5=50)**

17) A) Discuss the following :
    1) Round robin algorithm
    2) Multi level feedback queue scheduling.

       OR

   B) Explain the concept of Interprocess communication.

18) A) Explain about demand paging.

       OR

   B) Short note on memory management.

19) A) Describe the types of contiguous allocation.

       OR

   B) Briefly discuss about Bankers algorithm.

20) A) Explain page replacement algorithm.

       OR

   B) Describe the types and operation of files.

21) A) Describe Authentication in detail.

       OR

   B) Explain about allocation methods.

_____