

AE-1330

DCA (New Course)

Introduction to Operating System

Time : Three Hours] [*Maximum Marks* : 100

[Minimum Pass Marks : 33

Note : Answer **all** questions. The figures in the right-hand margin indicate marks.

1. Write answer of the following in short : 20
- (a) What is multi-tasking operating system ?
 - (b) What is worst fit memory allocation ?
 - (c) What is linker ?
 - (d) What is internal fragmentation ?
 - (e) What is page fault ?
 - (f) Explain producer and consumer problem.
 - (g) What is semaphore ?
 - (h) What is page table ?

(2)

- (i) Write any three works of operating system.
- (j) What is preemptive scheduling ?

Unit-I

2. Explain types of operating system. 16

OR

Explain process states and transition.

Unit-II

3. Explain scheduling criteria. 16

OR

What is deadlock ? Explain.

Unit-III

4. What is demand paging ? Explain. 16

OR

What is segmentation ?

Unit-IV

5. Explain scan and c-scan disk scheduling algorithms. 16

OR

(3)

Explain mass storage structure.

Unit-V

6. Explain directory structure. 16

OR

Explain Directory Implementation.
