



AF-3126

DCA (Part - I)
Term End Examination, 2017-18

Paper - VI

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 short answer of the following questions : 20

- (a) Define the Operating System.
- (b) What is Loader ?
- (c) What is Process ?
- (d) What is Scheduling ?
- (e) Define the Logical and Physical Address.
- (f) Explain the turnaround time.
- (g) What is Fragmentation ?

(2)

- (h) What is Buffering ?
- (i) Define Linker.
- (j) What is Segmentation ?

Unit-I

2. Explain the multiprogramming in detail. 16

OR

Explain the five state process model.

Unit-II

3. Write short notes on any **two** of the following : 16

- (a) Scheduling Criteria
- (b) Types of Scheduler
- (c) SJF (Shortest Job First) Scheduling

OR

What is Deadlock ? Give necessary conditions for deadlock.

Unit-III

4. Explain the working of demand paging in detail. 16

OR

(3)

Explain the contiguous and non-contiguous memory allocation.

Unit-IV

5. What is Disk Scheduling ? Explain its types. 16

OR

Explain the Device Management Techniques.

Unit-V

6. Explain the various file access methods. 16

OR

What is File ? Explain the two level and three level directory structure.