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.

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