

AE-818

M.Sc. (Previous)
Term End Examination, 2016-17

COMPUTER SCIENCE

Advanced Operating System

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer **all** questions. All questions carry equal marks.

Unit - I

1. What is Operating System ? Describe the objectives, functions and types of operating system in detail.

OR

Explain the following :

- (a) Direct Memory Access
- (b) Time Sharing Systems

(2)

Unit - II

4. What is meant by Process Management ? Explain the process management in Unix Operating System.

OR

Explain the following :

- (a) Principles of Deadlock
- (b) Linux Process and Thread Management

Unit - III

3. What is Memory Management ? Describe Memory partitioning, Paging and Segmentation in detail.

OR

Explain the following :

- (a) Virtual memory
- (b) Scheduling

Unit - IV

4. What is File Management ? Explain File Organization and Access and File System Security in brief.

OR

(3)

Explain the following :

- (a) I/O Management
- (b) Windows File System

Unit - V

5. What is meant by Malicious Software ?
Describe the concept and need of computer security in detail.

OR

Explain the following :

- (a) Distributed Process Management
- (b) Embedded Operating Systems
