

# 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
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