

SRI VENKATESWARA UNIVERSITY

B.Com., / B.A., / B.Sc., – COMPUTER APPLICATION

I YEAR – II – SEMESTER - W.E.F.2016-17

DSC3B: FUNDAMENTALS OF OPERATING SYSTEMS

Total Marks:75

Unit -1 Introduction to Operating System

Introduction to Operating Systems, Role (Functions) of Operating Systems, Types of Operating Systems, User Interface, Concept of Process and Running Programs by OS, Files & Folders(Organizing, Attributes, and Sharing), Managing Hardware, PC Operating System, Network (Server) Operating System, Embedded Operating Systems

Unit -2 Overview of Popular Operating Systems

DOS, Windows NT, Windows XP, Windows Vista, Windows 7, Windows 2000Server, Windows Server 2008, UNIX, Macintosh Operating Systems, Android, iOS

[unit 1 & 2 from book 1]

Unit -3 Roles/Functions of Operating System

Multi-Processing, Fault Tolerance and Load Balancing, Overview of Data Safety(RAID), Disk Defragmentation, Backup and Recovery, Security (Concept of User and Group, File and Folder Permission, Firewall), Workgroups, Domains, and Active Directory, Overview of Server Roles

Unit -4 Introduction to Linux Operating System

Introduction to Linux, History of Linux, Strengths and Weaknesses of LINUX, Features of Linux, LINUX Distributions, Basic Commands of Linux

Unit- 5 Introduction to Android

History of Android, Design goals , Memory management, Processor management, device management, file management, security management User interface.

Reference Books:

1. **Peter Norton**, “Introduction to Computers”,TMH
2. **Understanding Operating Systems By Ann McHoes, Ida M. Flynn**
3. **Alan Carter**, “Windows 2000 MCSE Study System”
4. **Pfaffenberger**, “Linux Commands Instant Reference”, BPB Publication

5. **Silberschatz& Galvin**, “Operating System Concepts”, Wiley, 5thEd.
6. **Sumitabha Das**, “UNIX Concepts and Applications”, THM, 4thEd.

S.V. UNIVERSITY; TIRUPATI

MODEL QUESTION PAPER – W.E.F. 2016-17

I B.Com., / B.Sc., / B.A., (CA); SEMESTER – II

DSC 3B: FUNDAMENTALS OF OPERATING SYSTEM

Time : 3 Hours

Max. Marks : 75

SECTION A

Answer any **Five** of the following Questions

(5 x 3 = 15 Marks)

1. (a) What is Memory Management?
- (b) Multi-Processing
- (c) What is command-User interface?
- (d) Workgroups
- (e) Backup and recovery
- (f) Firewall
- (g) List the file and directory commands in Linux.
- (h) Difference b/w single user OS and Multi-user OS.
- (i) Differences b/w desktop OS and Mobile OS.
- (j) How the security is maintain in Android Mobile.

Section - B

Answer any ONE Question from each unit. (5 × 12 = 60 marks)

UNIT I

2. What is Operating system? Explain the role of operating system.
3. Explain different kinds of desktop operating systems?

UNIT – II

4. What is DOS? Explain any 5 internal and external commands.
5. How you differentiate between Windows, Linux and Macintosh.

UNIT - III

6. Explain overview of the Data safety (RAID).
7. Explain workgroup, Domains and role of server.

UNIT - IV

8. Explain Linux advantages and disadvantages briefly.
9. Explain overview of Linux?

UNIT - V

10. Explain design goals of Android.
11. Explain device and file management in Android.