

GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE (BBA)
PRELIMINARY EXAM
B.C.A./B.SC.I.T. SEM – 4

SUBJECT : Operating System Concepts with Unix/Linux
TIME : 2 ½ Hours.

DATE : / /
MARKS: 70

Q-1-(A) ANSWER THE FOLLOWING.

(4)

1. What is Thread?
2. SJF stands for_____.
3. Queue at Ticket window is example of _____ type of scheduling algorithm.
4. When running process requires some input/output then it goes to_____ state.

Q-1-(B) ANSWER IN BRIEF (ANY ONE)

(2)

1. Explain Context Switching.
2. What is OS? List out its features.

Q-1-(C) ANSWER IN BRIEF (ANY ONE)

(3)

1. Explain Process state transition diagram in brief.
2. Explain Multithreads.

Q-1-(D) ANSWER IN BRIEF (ANY ONE)

(5)

1. Explain RR with suitable example.
2. Explain Function of OS.

Q-2-(A) ANSWER THE FOLLOWING.

(4)

1. What is fragmentation?
2. Full form of PCB _____.
3. Memory allocation is the process of_____.
4. Full form of SMT _____.

Q-2-(B) ANSWER IN BRIEF (ANY ONE)

(2)

1. Explain Deadlocks.
2. Explain difference between paging and segmentation.

Q-2-(C) ANSWER IN BRIEF (ANY ONE)

(3)

1. Explain physical memory and virtual memory.
2. Write a short note on paging.

Q-2-(D) ANSWER IN BRIEF (ANY ONE)

(5)

1. Explain noncontiguous memory allocation.
2. Explain virtual memory using paging.

Q-3-(A) ANSWER THE FOLLOWING.

(4)

1. UNIX was developed By.
2. Which is the extension for shell-script file?
3. The Bourne shell written by?
4. BASH Stands for _____.

Q-3-(B) ANSWER IN BRIEF (ANY ONE) (2)

1. Explain Shell.
2. Explain following Commands:
 - Cat
 - ls

Q-3-(C) ANSWER IN BRIEF (ANY ONE) (3)

1. Explain Comparison command in Linux.
2. Explain any three process related commands.

Q-3-(D) ANSWER IN BRIEF (ANY ONE) (5)

1. Explain types of file in UNIX.
2. Explain Unix Architecture.

Q-4-(A) ANSWER THE FOLLOWING. (4)

1. How to define variable?
2. Give the name of some shell keywords.
3. What is system variable?
4. Explain test command.

Q-4-(B) ANSWER IN BRIEF (ANY ONE) (2)

1. Explain Positional Parameters.
2. Explain Looping structure in Unix.

Q-4-(C) ANSWER IN BRIEF (ANY ONE) (3)

1. Explain decision statements in Unix.
2. Explain nano editor.

Q-4-(D) ANSWER IN BRIEF (ANY ONE) (5)

1. Explain VI editor in detail.
2. Write a shell script to Display a Digital Clock.

Q-5-(A) ANSWER THE FOLLOWING. (4)

1. Give Full form of LDAP?
2. Write a syntax to add user to particular group.
3. The UFW is an acronym for_____.
4. Wine stands for_____.

Q-5-(B) ANSWER IN BRIEF (ANY ONE) (2)

1. Difference between LILO and GRUB.
2. Explain FTP optimization.

Q-5-(C) ANSWER IN BRIEF (ANY ONE) (3)

1. What is WINE?
2. Explain firewall and how to enable firewall in Linux.

Q-5-(D) ANSWER IN BRIEF (ANY ONE) (5)

1. What is samba server? Explain the installation process.
2. Explain Apache server in detail with installation.

BEST OF LUCK