



157A/W/14/0077

B. Sc. (Part - II) - II Year : Computer Science- II
(Operating System Concepts and UNIX)
Paper – II

P. Pages : 4

Time : Three Hours

Max. Marks : 60

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- Notes : 1. All questions carry equal marks.
2. Draw neat and clean diagram whenever necessary.

Either

1. a) What is operating system ? Write main functions of an operating system. **6**
- b) List different types of operating system and explain any two of them. **6**

OR

- c) What do you mean by storage structure ? Explain in detail. **6**
- d) What is Deadlock ? Explain by giving a suitable example. **6**

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2. Either

- a) Explain different operating system components in detail. **6**
- b) Explain : **6**
 - i) Main Memory Management.
 - ii) Secondary Storage Management.

OR

- c) What is system call ? Explain in detail with diagram. **6**
- d) What is system structure ? Explain simple structure and layered structure. **6**

3. Either

- a) Explain different features of UNIX operating system in detail. **6**
- b) What are UNIX commands ? Categories the UNIX commands. **6**

OR

c) Explain following filters commands with example : **6**
i) grep
ii) egrep
iii) fgrep

d) Explain the need for an editor. List three different modes available in Vi editor. **6**

4. Either

a) Explain different communication utilities available in UNIX. Explain any two with example. **6**

b) What is secret mail ? Discuss commands to send and receive secret mail. **6**

OR

c) Explain Role of system administrator in UNIX OS. **6**

d) Explain following security and protection commands in UNIX. **6**
chmod
chown
chgrp

5. Either

- a) What is shell programming ? List the usage of shell programming. **6**
- b) What are the steps for writing and running shell script ? Explain in detail. **6**

OR

- c) Discuss while and until control structure giving suitable example. **6**
- d) Write a shell script to create a file and write content into that file. **6**
