

Bachelor of Computer Application - I (CBCS Pattern) Second Semester
UBCAT204 - Paper-IV : Operating System and Linux

P. Pages : 2

Time : Three Hours



GUG/W/18/11715

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answer related to question.

1. Either

- a) Explain the following : **8**
i) Time sharing
ii) Parallel operating system
- b) Explain the operating system ? What are the main purpose of operating system & types of operating system. **8**

OR

- c) Write a short note on : **8**
i) Storage structure.
ii) Storage Hierarchy.
- d) Explain the concept of I/O memory & CPU protection in detail. **8**

2. Either

- a) Explain secondary storage management in the operating system. **8**
- b) Explain the following : **8**
i) Networking
ii) Protection system

OR

- c) Explain the concept of file manipulation, device management ? **8**
- d) Explain system structure with simple layered approach in detail ? **8**

3. Either

- a) What is shell ? Which are the different types of shell in detail ? **8**
- b) Give the brief of Linux operating system with it feature & explain the advantage & disadvantage of it ? **8**

OR

- c) Explain the following : 8
i) ls ii) mkdir
iii) Cd iv) Cat
- d) What is editor ? Explain in detail about V_i editor ? 8

4. Either

- a) How to define the variable in shell script ? Explain with suitable examples ? 8
- b) Explain the following terms : 8
i) Chmod ii) Chown

OR

- c) Explain the following shell variable ? 8
i) \$HOME ii) \$PATH
iii) \$TERM
- d) Explain different types of looping statements used in Linux giving suitable example. 8

5. Solve all the questions.

- a) Write a short note on multiprogramming system. 4
- b) Explain the purpose of command interpreter. 4
- c) Explain the system administrator in brief ? 4
- d) What is a process command ? explain (PS, kill) commands ? 4
