B.C.A.- I CBCS Pattern Semester-II

UBCAT204 - Paper-IV : Operating System and Linux

P. Pages : 2

Time : Three Hours

Max. Marks : 80

*6 7 1 2 *

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

Either:

1. a) Define operating system. Write main functions of an operating system. **8**

b) List different types of operating system. Explain any two with example. **8**

OR

c) What do you mean by protection of system? Explain in brief hardware protection. **8**

d) What is concept I/O interrupt system? Explain. **8**

Either:

2. a) Explain: **8**

   i) Main memory management

   ii) Secondary storage management

b) What is process? List and explain the types of process. **8**

OR

c) What is system call? Explain different categories of system calls. **8**

d) Explain various operating system services. **8**

Either:

3. a) Write down the features and application of Linux Operating System. **8**

b) Explain: **8**
   i) Korn Shell   ii) Bourne Shell
   i) C-Shell

OR

c) Explain any 4 file management command in detail. **8**

d) Explain the structure of Linux operating system. **8**

Either:

4. a) Write and explain file commands in detail. **8**

b) Explain- **8**

   i)   chmod   ii)   chgsp

   iii) chown   iv)   Grep

OR

c) Explain control flow statement in shell script. **8**

d) Write a note on- **8**

   i)   Filter

   ii) Pipes

5.   Attempt all the questions.

   a)   What is dual mode operation. Explain in brief. **4**

   b)   Explain the directory structure in detail. **4**

   c)   Explain in brief about shell parameter. **4**

   d)   What is Kill command? **4**

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