UBCAT204 - Paper-IV : Operating System and Linux

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

Either:

1. a)   What is Batch processing system? List advantage and disadvantage of it.   **8**

    b)   Write a note on: **8**
       i)   Storage structure.
       ii)   Storage Hierarchy.

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OR

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    c)   Define with suitable example what I/O Interrupts are.   **8**

    d)   What is Swapping? Explain swap-in and swap-out.   **8**

Either:

2. a)   Describe file management in operation system.   **8**

    b)   Explain following in detail.   **8**
       i)   Simple system structure.
       ii)   System calls.

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OR

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    c)   List and explain in detail the operating system components.   **8**

    b)   What is the purpose of command interpreter? Explain.   **8**

Either:

3. a)   Give the architecture of Linux operating system and explain it.   **8**

    b)   Explain wildcard characters in linux with suitable example.   **8**

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OR

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    c)   Give syntax, purpose and example of following commands.   **8**
       i)   cat   ii) cp   iii) mv   iv) pwd

    d)   What is I-node? Name Pieces of information held in an I-node.   **8**

Either:

4. a) Discuss following shell variables. **8**
i) $HOME   ii) $PATH   iii) $TERM

b) Explain user and system defined variables with example. **8**

<p align="center">OR</p>

c) Write a program in shell script to create a file and write content into that file. **8**

d) Explain pipe and filters with suitable example. **8**

5. Attempt **all** the questions.

a) What is Bootstrap program? **4**

b) Explain various attributes associated with files. **4**

c) Explain directory structure of Linux. **4**

d) Explain Exit statement with suitable example. **4**

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