

M.C.M. - I (CBCS Pattern) Semester-II  
**PCMCMT203.1 - Paper-III: Elective-I: Operating System and Linux**

P. Pages : 2

Time : Three Hours



**GUG/W/24/10765**

Max. Marks : 80

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

**Either:**

1. a) Define operating system and write functions of operating system. 8
- b) Explain the following- 8
  - i) Multiprogramming
  - ii) Distributed System

**OR**

- c) Define multiprocessing? Explain Time Sharing System in detail. 8
- d) Write a detail note on virtual memory management. 8

**Either:**

2. a) Explain any four Directory commands in DOS with syntax and example. 8
- b) Discuss Directory structure of Disk operating system. 8

**OR**

- c) Explain following command with syntax and example. 8
  - i) DEL
  - ii) ATTRIB
  - iii) XCOPY
  - iv) DATE
- d) What do you mean by Booting? Explain its types. 8

**Either:**

3. a) Explain the structure of Linux operating system. 8
- b) Write a detail note on Vi Editor. 8

**OR**

- c) Discuss Directory structure of Linux operating system. 8

- d) Explain following commands with syntax and example. 8  
i) ls ii) pwd  
iii) cat iv) ln

**Either:**

4. a) Explain following permission modes with syntax and example. 8  
i) chmod ii) chgrp  
b) What is shell script? Explain any one control flow statement with example. 8

**OR**

- c) Explain sort and grep with syntax and example. 8  
d) What do you mean by process? Explain ps and kill command with syntax and example. 8

5. Solve all the questions.

- a) Explain the concept of Multitasking. 4  
b) Explain following with syntax and example. 4  
i) Copy ii) Type  
c) What do you mean by shell? Explain C-shell. 4  
d) Write a note on shell parameters. 4

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