

Tutorial Unit 2 (Operating Systems)
PGDCA I Semester
PS01CDC35: Foundation of Software Development
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Short Questions/Objective Questions

1. What is operating system?
2. What are the basic tasks/functions of an operating system?
3. Give two examples of operating systems.
4. Define memory management in a typical operating system.
5. Define process management in a typical operating system.
6. Define device management in a typical operating system.
7. Define file management in a typical operating system.
8. List any three types of operating systems.
9. Define batch operating system.
10. Define distributed operating system.
11. Define time sharing operating system.
12. Define network operating system.
13. Define mobile operating system.
14. Give example of two mobile operating systems.
15. Describe in brief (one to two lines) the concept of process operating system.
16. List possible states of a process in an operating system.
17. Draw diagram of process showing various states a process in an operating system.
18. What is I/O bound process in an operating system?
19. What is CPU bound process in an operating system?
20. List two process scheduler types.
21. Draw only the queuing diagram of processes in an operating system.
22. Define paging.

23. Define virtual memory?
24. List techniques of implementing virtual memory.
25. What is VMM? What is its main objective?
26. List typical attributes of file.
27. List three basic types of files.
28. What are the functions possible on a file?
29. List three file access methods.
30. Give three file extensions of your choice.

Big Questions

1. Define operating system. Write a short note on its various functions.
2. List and describe various types of operating systems in details.
3. Explain concept of process in operating system and describe process scheduling in details.
4. Draw the queuing diagram of processes in an operating system. Describe its working in detail.
5. Explain concept of paging in an operating system by giving necessary diagram.
6. Explain the concept of virtual memory in detail.
7. Describe various file attributes in details.
8. Explain (i) character special file, (ii) ordinary files, and (iii) directory files in detail.
9. Explain sequential and direct file access methods by giving necessary diagram.
10. Explain index sequential file access methods by giving necessary diagram.