

Dr. D.Y. Patil Institute of Technology, Pimpri, Pune-18

Department of Artificial Intelligence & Data Science

Subject- Operating System

Question Bank

Unit 1: Fundamentals Concepts of Operating System

- | | | |
|----|--|---|
| 1 | Explain the role operating system as resource manager. | 5 |
| 2 | Give the significance of following shell commands with example: is, uniq, tail, touch grep. | 5 |
| 3 | What is an operating system? List and explain services provided by the operating system. | 5 |
| 4 | Write a shell script to check if the given string is palindrome or not. | 5 |
| 5 | Write down the advantages and disadvantages of Batch Processing System. | 5 |
| 6 | Enumerate various OS components and give their function in brief. | 5 |
| 7 | Discuss the evolution of Operating System. | 6 |
| 8 | Differentiate between time sharing and real time operating system | 6 |
| 9 | What is operating system? State and explain the basic functions of Operating System. | 6 |
| 10 | Explain the following shell commands with example:
i) echo ii) grep iii) touch iv) ls | 4 |
| 11 | State and explain different services provided by an Operating System. | 6 |
| 12 | Explain the following shell commands with example.
i) Chmod ii) Grep iii) Cat iv) Sort | 4 |
| 13 | State the essential difference between the following types of OS : Batch processing, multiprogramming, real - time. | 6 |
| 14 | What are the various objectives and functions of operating systems? | 7 |
| 15 | Discuss the different modes of operating system with the help of diagram? | 5 |
| 16 | What are the various design issues of operating system? | 6 |
| 17 | Describe the history of operating system? | 8 |

- | | | |
|----|---|---|
| 18 | List down the use and application of BASH scripting. Also explain the BASH commands: grep, cv, cat, mv and ps. | 8 |
| 19 | Explain the importance of system call and discuss the main system calls like fork(), exec(), wait(), kill() and open(). | 8 |
| 20 | List the categories of system calls and explain process system call with an example. | 6 |
