

**Fourth Semester FYUGP Degree (Reg) Examination April
2026**

KU4DSCCSC210 - OPERATING SYSTEMS

2024 Admission onwards

Time : 2 hours

Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. What is a priority scheduling ?mention its disadvantage?
2. Differentiate pre-emptive and non-preemptive scheduling.
3. Differentiate between internal fragmentation and external fragmentation.
4. What is internal fragmentation? Explain with example
5. What are the three main activities an OS performs during File Management?
6. What is package management in Linux?
7. What is the use of the 'pwd' and 'cd' command?
8. How does the cd command work? Give an example.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Discuss deadlock prevention techniques.
10. What are System Calls? Explain with an example
11. Explain contiguous memory allocation. Discuss its advantages and limitations.
12. Explain the history and evolution of UNIX and Linux OS?
13. Describe the use of ls, mkdir, and rmdir commands.
14. Explain APT package management system in detail.

Section C

Answer any 2 questions. Each carry 14 marks.

15. Describe the different types of Operating Systems (Batch Processing System, Multiprogramming, Time Sharing System, Real Time System, Distributed System) with their advantages and disadvantages.

16. Explain the major functions of an Operating System in detail.
17. Explain CPU scheduling in detail .Discuss:
- a)Types of schedulers
 - b)Context switching
 - c)Scheduling criteria

Don Bosco Arts and Science College
Library
Angadikadavu, Kannur
lib.donbosco.ac.in

