

Lamrin Tech Skills University Punjab

University School of Engineering & Technology

Program: B.Tech
MST-I Sept. 2024
Semester: 3rd
Max. Marks: 25

Course Title: System Programming and Operating System (UGCS-204)

1. SECTION-A is Compulsory carrying one marks each.
2. SECTION-B you have to attempt 3 questions carrying 5 marks each.
3. SECTION-C you have to attempt 1 question carrying 8 marks each.

Section-A (5x1=5)

Q1.

- (i) Define Operating System.
- (ii) What is Kernel?
- (iii) Define Real Time OS.
- (iv) Define Debugger.
- (v) What type of system program is responsible for translating high-level code into machine code?

Section-B (3x4=12)

- Q2. What is a System call? What are the various types of system calls provided by an operating system?
- Q3. Explain Monolithic OS structure with its advantages and disadvantages.
- Q4. What is System Programming. Define any three system programs.
- Q5. Explain Micro-Kernel OS structure with its advantages and disadvantages.
- Q6. Explain Layered OS structure with its advantages and disadvantages.

Section-C (1x8=8)

- Q7. Explain different types of operating system with their advantages and disadvantages.
- Q8. Explain the key operating system services with the help of a diagram.