

## **Assignment 1**

### **(Introduction to Operating System)**

**Objective:** The objective of this assignment is to test the basic knowledge of students on operating systems and their functions.

**Instructions:**

- 1. The assignment consists of 10 multiple-choice questions.**
- 2. Each question has four answer choices, with only one correct answer.**
- 3. Students should select the correct answer for each question.**

1) What is an operating system?

- a) interface between the hardware and application programs
- b) collection of programs that manages hardware resources
- c) system service provider to the application programs
- d) all of the mentioned

2) To access the services of the operating system, the interface is provided by the?

- a) Library
- b) System calls
- c) Assembly instructions
- d) API

3) Which of the following is not a function of an Operating System?

- a) Resource allocation
- b) File management
- c) Network administration

d) Word processing

4) If a process fails, most operating systems write the error information to which file?

- a) new file
- b) another running process
- c) log file
- d) none of the mentioned

5) Which one of the following is not a real time operating system?

- a) RTLinux
- b) Palm OS
- c) QNX
- d) VxWorks

6) What is the role of a device driver in an Operating System?

- a) To allocate system resources
- b) To manage the file system
- c) To communicate with hardware devices
- d) To schedule processes

7) Which of the following modes is a safe environment which doesn't support execution of privileged instructions?

- a) User Mode
- b) Kernel Mode
- c) Safe Mode
- d) Unprivileged mode

8) Where is the bootstrap program stored in the computer system?

- a) ROM
- b) RAM
- c) Hard Disk
- d) Cache Memory

9) Which of the following is used to identify the source of interrupt?

- a) System Call
- b) Mode Bit
- c) IRQ number
- d) PID

10) The central component of OS that provides essential services and manages the system's resources

- a) Shell
- b) GNU
- c) Kernel
- d) Operating System