GALGOTIAS UNIVERSITY

School of University Polytechnic
Diploma in Computer Science and Engineering
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem III - N1DF302B - Operating System

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1) Explain the concept of multi-programming and its benefits. — K2 (2)

2) Define batch processing in operating systems. — K1 (3)

3) Define time-sharing in the context of operating systems. — K2 (4)

4) Explain the evolution of operating systems from their initial stages to modern systems, highlighting significant developments. — K2 (6)

5) Write a description of the evolution of operating systems, starting from early computers to modern systems. — K3 (6)

6) Illustrate the concept of multi-processing using an example from a modern computer system. — K3 (9)

7) Compare and contrast the characteristics of a distributed operating system and a network operating system. — K4 (8)

8) Analyze the benefits and challenges of implementing a multi-tasking system in comparison to a single-tasking system. — K4 (12)

OR

Create a diagram illustrating the layered structure of an operating system and label each layer with its corresponding functions. — K4 (12)