School of Computing Science and Engineering
Bachelor of Computer Applications
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem III - E1UA301B - Operating System with Linux

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)	Define operating system.	K1 (1)
2)	Diffferentiate between user threads and kernel threads.	K2 (2)
3)	Define an Operating system. Illustrate the functions of an operating system.	K3 (3)
4)	Explore semaphores. Mention its importance in operating system.	K3 (6)
5)	Explore different solutions of Dining Philosopher Problem briefly.	K3 (9)
6)	Explain Peterson's solution for achieving mutual exclusion.	K4 (8)
7)	Discuss the following: a) Process states b) Critical section c) Race condition d) Starvation e) PCB	K5 (15)
8)	Distinguish between shared and exclusive lock.	K6 (6)