

SAGE University Indore Institute of Computer Application Mid-Semester Test I BCA semester I: Oct -2023

Institut	e Name: Compute	r Application		Subject: Operating Syst	ems		
				Subject: Operating Systems			
Program Name: BCA				Branch: BCA			
Semester: I				Section: A-B-C-D			
Subject Code: CAPDCOPS003T				Session: July-Dec-2023			
Unit Test No: 1,2				Date of Test: 09/10/2023			
Max. Marks: 20				Allotted Time: (90 min duration max)			
COI:	Describe the impo	rtant computer sy	stem resources a	nd the role of operating syst	ems in their mana	gement policie	s and algorithms
CO2:	After learning the components of OS. Students will conti	e fundamental co nue to more signi	oncepts of Operations of	ating systems including ho	w OS has evolve	d over the ye	ars and different
Note. A	All Questions carr	y equal marks,	Attempt any fiv	ve questions.			
Q. No.	Questions				Marks	СО	BL
Q.1	What is an Operating System and what are the goals and functions of an Operating System?				4	C1	LI
Q.2	Define System Call and also explain fork system call with an example.				4	C1	Ll
Q.3	What is a process and what are the different states of a process?				4	C2	L1
Q.4	Consider the set of 5 processes whose arrival time and burst time are given below-				4	C2	L1
	ociow-	Process Id	Arrival time	Burst time			
		PI	0	\$			
		P2	1	3			
		P3	2	1			
		P4	3	2			
		P5	4.	3			
	turnaround time	s.		he average waiting and			
Q.5	What is the difference between Preemptive and Non Preemptive scheduling?				? 4	C2	L1
2.6	Define Threads and its importance.				4	C2	L5
2.7	Explain the Process Control Block with a diagrammatic representation.				4	C5	L2
Q.8	Define: - 1. Types of Operating Systems. 2. User and Kernel threads.				4	C5	L6