

GUJARAT TECHNOLOGICAL UNIVERSITY**B.VOC - SEMESTER- I EXAMINATION – WINTER 2019****Subject Code: 1110204****Date: 08/01/2020****Subject Name: Operating System (OS)****Time: 10:30 AM TO 12:30 PM****Total Marks: 50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		Marks
Q.1	(a) Give the difference between compiler and interpreter.	05
	(b) Explain various OS services.	05
Q.2	(a) Draw and explain five state process model in detail.	05
	(b) Explain Shortest Job First Scheduling algorithm with suitable example.	05
OR		
	(b) Give the difference between process and thread.	05
Q.3	(a) Explain race condition in brief.	05
	(b) Give the difference between paging and segmentation.	05
OR		
Q.3	(a) Explain various page replacement strategies with example.	05
	(b) Explain critical section in brief.	05
Q.4	(a) Explain Real Time Operating System in brief.	05
	(b) Discuss any five file operations in brief.	05
OR		
Q.4	(a) Draw and explain Linux Architecture in detail.	05
	(b) Explain following disk scheduling algorithms. (i) SCAN (ii) FCFS	05
Q.5	(a) Explain various compression tools in brief.	05
	(b) Compare and contrast Android with iOS.	05
OR		
Q.5	(a) State feature of any one interactive operating system.	05
	(b) Explain antivirus as the utility software.	05
