Re	g. No
	B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2020
	SEMESTER -6: COMPUTER APPLICATIONS (CORE COURSE)
	COURSE: 15U6CRCAP11: OPERATING SYSTEMS
	(Common for Regular 2017 Admission & Supplementary 2016 /2015 Admissions)
Tim	e: Three Hours Max Marks: 75
	PART A
	Answer all questions. Each question carries 1 mark.
1.	What is a hard real time system?
2.	What is meant by throughput?
3.	What is preemptive scheduling?
4.	What is a critical region?
5.	What is a page fault?
6.	What is hit ratio?
7.	Whether RR scheduling is preemptive or non preemptive?
8.	What is latency time?
9.	What is a directory?
10.	Expand i-node. (1 x 10 = 10)
	PART B
	Answer any eight questions. Each question carries 2 marks.
11.	Which are the various OS services?
12.	What is Aging in priority scheduling?
13.	Differentiate between non preemptive and preemptive scheduling.
14.	What is a semaphore?
15.	Differentiate between logical address and physical address.
16	Differentiate between contiguous and non-contiguous allocation

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17. Write about various file attributes.

18. Write any four advantages of Linux over other OS.

19. What is Linux Shell?

20. Which are the necessary conditions for deadlock?

 $(2 \times 8 = 16)$

PART C

Answer any five questions. Each question carries 5 marks.

- 21. Write short note on various types of system calls.
- 22. Explain the criteria for a good scheduling.
- 23. Write short note on shared paging.
- 24. Explain segmentation in detail.
- 25. What is demand paging? Explain with neat diagram.
- 26. Explain the various file operations.
- 27. Write any five commands in Linux.

 $(5 \times 5 = 25)$

PART D

Answer any two questions. Each question carries 12 marks.

- 28. Define deadlock and explain the methods of detection and prevention of deadlocks.
- 29. Explain paging in detail.
- 30. Explain any three file allocation strategies.
- 31. Define process. Explain process states and its transitions with neat diagram. $(12 \times 2 = 24)$
