## M.Tech 2nd Semester (CSE) Examination, May-2017

## RESOURCE MANAGEMENT IN COMPUTER SYSTEMS

## Paper-MTCE-604-A

Tii	ne allowed : 3 hours]	[Maximum marks: 100
No	ote: Attempt only five question marks.	ons. All questions carry equa
1.	What is an operating sys discuss services of opera	tem and its function? Also ting system.
2.	Jes of fotos play	y by system call? Explain calls in operating system.
		20
3.	Write short note on follow  (a) Virtual Memory  (b) Context Switching	wing: 20
1.	· ·	nd sufficient condition for revention.
5.	What is distributed system issues for this, also expladistributed system.	n? Explain various design ain briefly architecture of
230	071-P-2-Q-8 (17)	P. T. O.

- 6. Distinguish among following:
  - (a) Compare Mutual exclusion in single computer system and distributed system. 10
  - (b) How rechart Algorithm is better than lampart algorithm toward achieving a critical section? Take two state S1 and S2 to explain the concepts.

10

7. Discuss briefly distributed file system. Also explain the mechanism for building distributed file system.

20

8. Explain the following:

 $5 \times 4 = 20$ 

- (a) Bell LaPadula Method
- (b) Case studies of linux and window operating system
- (c) Access matrix model
- (d) Logical clock