

E

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 51Q03

M.E. DEGREE EXAMINATION, NOV 2018

First Semester

Computer Science and Engineering

15PCS103- ADVANCED OPERATING SYSTEMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) (i) How can you prevent deadlock? CO1- U (10)
(ii) Explain deadlock recovery methods. CO1- U (10)

Or

- (b) Explain the various scheduling algorithms with example. CO1- U (20)
2. (a) Briefly explain in detail about communication primitives. CO2- U (20)
- Or
- (b) Explain in detail about global state detection algorithm. CO2- U (20)

3. (a) Identify and explain the protocol where the decision to abort or commit is taken by the coordinator. Design a protocol where no site is designated to be a coordinator. CO3- App (20)

Or

- (b) Describe synchronous check pointing algorithm. In this algorithm when a process receiving a Take_a_tentative_ckpt message, will send it to all the processes that are in its ckpt_cohort set. Is this necessary? Justify your answer. CO3- App (20)

4. (a) Explain in detail about cyclic schedulers. CO4- U (20)
- Or
- (b) Explain in detail about the methods of handling resource sharing. CO4- U (20)
5. (a) Explain in detail about file system in Linux. CO5- Ana (20)
- Or
- (b) Explain in brief about inter process communication in Linux System. CO5- Ana (20)
-