

Code No: **R42053****R10****Set No. 1****IV B.Tech II Semester Supplementary Examinations, April - 2018****ADVANCED OPERATING SYSTEMS****(Common to Computer Science & Engineering and Information Technology)****Time: 3 hours****Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Explain the overview of computer system hardware. [8]
b) List different types of interrupts explain in brief. [7]
- 2 a) Define distributed system. What are the advantages of distributed system over centralized system? [7]
b) What is asynchronous transfer mode? Discuss ATM reference model in brief. [8]
- 3 a) Explain cristian's algorithm, the berkely algorithm in detail. [7]
b) Explain the comparison of three mutual exclusion algorithms in detail. [8]
- 4 a) Compare and contrast centralized deadlock detection and distributed deadlock detection. [8]
b) Discuss distributed deadlock prevention in detail. [7]
- 5 a) Discuss the design issues for thread packages. [7]
b) Explain the scheduling in distributed system. [8]
- 6 a) Explain the concepts of file server interface and the directory server interface in detail. [8]
b) Explain the network file system protocols and network file system implementation in detail. [7]
- 7 a) Explain bus -based multiprocessors in detail. [7]
b) Explain the release consistency and entry consistency of consistency model. [8]
- 8 a) Explain in brief the memory management in MACH. [7]
b) Explain the remote procedure call in distributed computing environment in brief. [8]