

(DMCA205)

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M.C.A. DEGREE EXAMINATION, MAY – 2018**Second Year****DISTRIBUTED OPERATING SYSTEMS****Time : 3 Hours****Maximum Marks :70****SECTION - A****Answer any three questions from the following.****(3 x 15 = 45)**

- Q1)** Discuss different software and hardware concepts in distributed operating system.
- Q2)** Explain about parameter passing and dynamic binding in remote procedure call.
- Q3)** Explain about deadlock detection and prevention issues in distributed systems.
- Q4)** Discuss about workstation and processor pool system models.
- Q5)** Explain about distributed file system design issues.

SECTION - B**Answer any five questions from the following.****(5 x 4 = 20)**

- Q6)** What are the advantages of distributed systems over independent PC's.
- Q7)** Describe the functions of ATM adaption layer.
- Q8)** What is group communication? Explain in brief.
- Q9)** Explain about clock synchronization algorithm.
- Q10)** Write about token ring mutual exclusion algorithm.
- Q11)** Explain about thread package.
- Q12)** Explain about scheduling concept in distributed systems.
- Q13)** Write short notes on caching and replication mechanism in distributed file system.

SECTION - C

Answer all questions. (5 x 1 = 5)

Q14) What is true distributed system?

Q15) What is switched multiprocessor?

Q16) What is physical clock?

Q17) Define mutual exclusion.

Q18) What is meant by atomic transaction?



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