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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA I Year II Semester Supplementary Examinations Dec 2019
OPERATING SYSTEMS

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a What are the differences between distributed systems and real time systems? **7M**
b Define system calls and its types. **5M**

OR

- 2 a Write short notes on Evolution of Operating Systems. **6M**
b Write shortly about OS structure. **6M**

UNIT-II

- 3 a Explain different process state with neat diagram **6M**
b Discuss about FCFS and SJF CPU scheduling algorithms in detail **6M**

OR

- 4 a Write about Peterson's Algorithm **6M**
b How Semaphore and monitors are used in process synchronization? **6M**

UNIT-III

- 5 a Write short note on a) Overlays b) Swapping **6M**
b Explain demand paging in detail **6M**

OR

- 6 a Explain the paging memory management technique in detail **4M**
b What is fragmentation? Explain in detail. **8M**

UNIT-IV

- 7 a Discuss about various disk scheduling in detail. **8M**
b Explain the different file accessing methods **4M**

OR

- 8 a Explain file implementation methods **6M**
b Discuss about free space management **6M**

UNIT-V

- 9 a What is deadlock? Explain with an example. **6M**
b Write short notes on resource allocation graph **6M**

OR

- 10 a Discuss about deadlock recovery technique **6M**
b Write about domain protection **6M**

*** END ***