

Q.P. Code: 588702

(3 Hours) [ Total Marks: 80

any stated.

Justify the same.

Justify the same. N.B.: (1) Ouestion No.1 is compulsory. 1. 2. 3. techniques using diagram. (b) What critical section of a process? Describe two solutions to achieve mutual 10 Exclusion of critical sections in an OS. (a) Consider the following precess 4. 10 Process Arrival time Service Time 0 8 P 9 P, Solve the above given problem with shortest remaining time first by drawing gantt chart and also calculate the average waiting time, turnarourd time and throughput. (b) Explain RAID with different levels. 10 (a) Explain the working of EDF and RMA real time scheduling algorithms. 5. 10 (b) What is semaphore? Give an implementation of bounded buffer producer 10 consumer problem using semaphore. (a) Define the meaning of a race condition? Use an Execution Sequence to 10 illustrate your answer. (b) Explain different file allocation techniques in an OS. 10