The University of Burdwan

M.Sc. (DDE) 3rd semester examination, 2019

Subject: Computer Science

Paper: MCS-302 (Advanced Operating System)

Full Marks: 22.5

Answer Question number 1 and any three questions from the rest.

- Explain the Banker's Algorithm for deadlock avoidance with an example. (7.5)
 Or
 Explain the Deadlock detection algorithm with an example. (7.5)
- 2. Differentiate between Parallel and Distributed system. (5)
- 3. Differentiate between multiprocessing and multithreading. (5)
- 4. Differentiate between Binary and Counting Semaphore. (5)
- 5. Differentiate between long term, short term, and medium term CPU scheduler.(5)
- 6. Using Shortest Remaining Time First CPU Scheduling algorithm calculate the average waiting time of the given problem. (5)

Process	Burst Time	Arrival Time
P1	5	0
P2	4	1
P3	2	2
P4	3	3