

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI CYCLE TEST – 1 : JAN. 2021 SESSION

DEPARTMENT : CSE

DATE & TIME OF EXAM : 1st March 2021/10:00 -12:00 PM

SUB CODE : CSPC43 DURATION:1 hours

FACULTY NAME : Dr. S. Jaya Nirmala

Answer all the questions

1. Discuss about the dual-mode operation.

[3]

[2]

2. For the following set of processes, find the average waiting time, and turnaround time while applying the RR algorithm. Draw charts and show the calculations. [5]

Process Number	Burst	Arrival
P1	25	0
P2	12	10
Р3	20	15
P4	10	25
P5	60	20

- 3. List out the various definitions of Operating Systems
- 4. Write a Pthread program which takes a number *n* as command line argument and calls a function called 'calculator' that counts and prints the count of even numbers from 0 to the given *n*.
- 5. Distinguish between Ordinary pipes and Named pipes. [2]
- 6. Write short notes about Thread Cancellation. [3]
- 7. Define the following: a) Convoy Effect b) Processor Affinity [2+2]
- 8. Write short notes on Peer-to-Peer systems. [3]