

# CBCS SCHEME

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15CS64

## Sixth Semester B.E. Degree Examination, Aug./Sept. 2020 Operating Systems

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1
  - a. Define operating systems. What are multiprocessor systems? Explain their three main advantages. (05 Marks)
  - b. Compare multi-programming and time sharing systems. (05 Marks)
  - c. Point out and explain the various operating system services. (06 Marks)

OR

- 2
  - a. What are microkernels? Point out their advantages. (05 Marks)
  - b. What are the two models of inter process communications? What are the strengths and weakness of the two approaches? (05 Marks)
  - c. Compare and contrast, short term, medium term and long – term scheduling. (06 Marks)

### Module-2

- 3
  - a. Point out and explain the various benefits of multi threaded programming. (04 Marks)
  - b. Consider the five processes arrive at time 0, in the order given, with the length of the CPU burst given in milliseconds.

| Process        | Burst time |
|----------------|------------|
| P <sub>1</sub> | 10         |
| P <sub>2</sub> | 29         |
| P <sub>3</sub> | 3          |
| P <sub>4</sub> | 7          |
| P <sub>5</sub> | 12         |

Consider the FCFS, SJF and RR (quantum = 10ms) scheduling, draw the Gantt chart for each of the scheduling. Determine average waiting time and turnaround time for all the 3 scheduling algorithm. Which algorithm would give the minimum average waiting time? (12 Marks)

OR

- 4
  - a. What is the critical section problem point out and explain its three requirements. (05 Marks)
  - b. What are semaphores, explain how mutual exclusion is implemented with semaphores. (05 Marks)
  - c. What is Dining philosopher problem explain its monitor solution. (06 Marks)

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