Code: A25AB

R15

B V RAJU INSTITUTE OF TECHNOLOGY
(UGC AUTONOMUOUS)
B.Tech 3 Year 1 Semester Regular/Supplementary Examinations, Feb 2021
OPERATING SYSTEMS
ACADEMIC

Time: 3 Hours   **Max Marks: 70**

Note: This Question Papers Contains Two Parts A and B
Part A: is compulsory Which Carries 20marks. Answer all Questions in Part A at one place only.
Part B consists of 10 Questions. Answer any five (one full question from each unit). Each question carries 10 marks and may have a, b, c as sub questions.

<div align="center">Part - A   (2 x 10 = 20)</div>

1. a) How are server systems classified?

   b) Describe the objective of multiprogramming.

   c) Briefly explain FCFS.

   d) What factors determine whether a detection-algorithm must be utilized in a deadlock avoidance system?

   e) What is the best page size when designing an operating system?

   f) What is the basic function of paging?

   g) Explain pros and cons of a command line interface?

   h) What is multitasking?

   i) What is GUI?

   j) How would a file name EXAMPLEFILE.TXT appear when viewed under the DOS command console operating in Windows 98?

<div align="center">Part - B   (5 x 10 = 50)</div>

2 How many types of fragmentation occur in Operating System?
<div align="center">OR</div>
3 What is the difference between logical address space and physical address space?

4 a) What is scheduling? What criteria affects the schedulers performance?

   b) What are the advantages of Multiprocessing or Parallel System?

<div align="center">OR</div>

5 a) What are the differences between Real Time System and Timesharing System?

   b) What is Shortest Remaining Time, SRT scheduling?

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6 What are the different scheduling algorithms

<div align="center">OR</div>

7 What is deadlock?

<div align="center">***</div>

8 a) What is kernel?

   b) What is the difference between process and program?

<div align="center">OR</div>

9 a) What are the different operating systems?

   b) What do you mean by a process?

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10 a) What is SMP?

   b) What is a thread?

<div align="center">OR</div>

11 a) What is FCFS?

   b) What is RAID? What are the different RAID levels?

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