322872(22)

B. E. (Eighth Semester) Examination, April-May 2020

(Old Scheme)

(CSE, IT Engg. Branch)

DISTRIBUTED PARALLEL PROCESSING

(Elective-III)

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Question (a) is compulsory and carries 2 marks. Attempt any **two** parts from parts (b), (c) and (d) from each carries 7 marks.*

Unit-I

1. (a) What is Parallel Processing?   2

   (b) Explain the different parallel programming models.   7

   (c) Explain the architecture of parallel processing.   7

   (d) Discuss the Thread based implementation management.   7

Unit-II

2. (a) What do you mean by distributed computing?   2

   (b) Explain the message passing mechanism in distributed computing.   7

   (c) Explain the PVM Process Control.   7

   (d) Discuss the different types of PVM console commands.   7

Unit-III

3. (a) What is PVM?   2

   (b) Explain remote procedure call in distributed computing.   7

   (c) Explain POSIX thread reference creation.   7

   (d) Discuss the Deploying application in DCE.   7

Unit-IV

4. (a) What is Distributed Computing-1 and Distributed
Computing-II.   2

(b) Explain the Parallel Reduction in Parallel Machines. 7

(c) Discuss parallel sorting algorithms.   7

(d) Explain probalistic algorithms for Parallel Machines. 7

Unit-V

5. (a) What is Forton-90?   2

(b) Explain n-CUBE problems.   7

(c) Explain the various Debugging Parallel programming
Techniques.   7

(d) Write the difference between Distributed Operating
System and Network Operating System.   7