

Total No. of Questions : 6]

SEAT No. :

P39

[Total No. of Pages : 2

APR - 18/TE/Insem. - 41

T.E. (Computer Engineering)

**PRINCIPLES OF CONCURRENT AND DISTRIBUTED
PROGRAMMING**

(2012 Course) (Semester - II) (310249)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Explain the structure of a LEX and YACC file. [4]
b) Write short note on GUI Computational Model. [4]
c) Write a LISP program to check whether a number is even or odd. [2]

OR

- Q2)** a) Explain MPI JAVA in detail. [4]
b) Explain architecture of OpenCL. [4]
c) What is meant by Computational Model? [2]

- Q3)** a) Explain the concept of concurrent java. [4]
b) Explain how to count task dependency. [4]
c) What is the difference between thread and process? [2]

OR

P.T.O.

- Q4)** a) Short note on: [4]
- i) Thread in java
 - ii) Deadlock
- b) Explain inter process communication. [4]
- c) Write short note on shared memory. [2]
- Q5)** a) How parallelism can be achieved using GPU? [5]
- b) What are different types of asynchronous multiprocessors? [5]
- OR
- Q6)** a) Write a note on Flynn's classification. [5]
- b) What is a streaming multiprocessor? Explain with a diagram. [5]

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