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SEAT No. :

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TE/INSEM/APR-62

**T.E. (Computer Engineering)
310249: PRINCIPLES OF CONCURRENT AND
DISTRIBUTED PROGRAMMING (Semester - II)
(2012 Pattern)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer questions 1 or 2, 3 or 4, and 5 or 6.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a)

Write short note on Object Oriented Programming Model. [5]

b)

Write a LISP program to calculate factorial of a number. [5]

Q2) a)

List and explain applications of LISP. [5]

b)

Write short notes on LEX. [5]

Q3) a)

Discuss Inter Process Communication (IPC) With example. [5]

b)

With reference to concurrent Java explain the following methods used in multithreading- [5]

Sleep ()

Suspend()

Wait()

Notify()

Notifyall()

OR

Q4) a)

Explain different levels of threads with neat diagrams. [5]

b)

What are synchronization mechanisms with respect to concurrency? Explain in brief. [5]

Q5) a)

What are different alternatives to CUDA? Explain them. [5]

b)

Explain in detail the Flynn's architecture with Example. [5]

OR

Q6) a)

Explain in detail the Shore's classification with Example. [5]

b)

Explain Synchronous Multiprocessor (Array Processor) architecture. [5]

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P.T.O.

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