Total No. of Questions : 6]

SEAT No. :

P57

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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]**

OR

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()

P.T.O.

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]**