

Total No. of Questions :6]

SEAT No. :

P102

APR. -16/TE/Insem. - 39

[Total No. of Pages :2

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 Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
- 2) *Neat diagram 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 constraint programming model. **[5]**

b) Explain platform model in Open CL with suitable example. **[5]**

OR

Q2) a) Explain the functions CDR, CONS, RANDOM, CAR, ATOM in LISP. **[5]**

b) Explain object oriented computational model. **[5]**

Q3) a) Discuss inter thread communication (ITC). With example. **[5]**

b) With reference to concurrent java explain the following methods used in multithreading. **[5]**

- i) sleep ()
- ii) suspend ()
- iii) wait ()
- iv) notify ()
- v) notify all ()

OR

P.T.O.

- Q4)** a) Write short note on concurrent YACC. [5]
b) What are synchronization mechanisms with respect to concurrency? Explain in brief. [5]
- Q5)** a) Explain in detail the Shore's classification with example. [5]
b) Write short note on Compute Unified Device Architecture (CUDA) [5]

OR

- Q6)** a) Explain Gustafson's law and Amdah is law. [5]
b) Explain different alternatives to CUDA. [5]

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