(3)

Total No. of Questions :6]

SEAT No. :

P102

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APR. -16/TE/Insem. - 39

T.E. (Computer Engineering)

PRINCIPLES OF CONCURRENT AND DISTRIBUTED PROGRAMMING

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

Time : 1Hour] *[Max. Marks :30*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q6.*
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

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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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