Total No. of Questions : 6]

SEAT No. : 150

P203

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TE INSEM
MAR 2017

APR - 17/TE/Insem. - 39

T.E. (Computer Engineering)

PRINCIPLES OF CONCURRENT AND DISTRIBUTED PROGRAMMING

(2012 Course) (Semester - II)

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 diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Write a short note on stateful computation model. Define implicit and explicit state with example. [5]

b) Write a LISP program to calculate n^{th} fibonacci number and explain with example. [5]

OR

Q2) a) Explain object oriented computational model. [5]

b) Write short note on YACC. [5]

Q3) a) With reference to concurrent Java explain the following methods used in multithreading. [5]

i) sleep ( )

ii) suspend ( )

iii) wait ( )

iv) notify ( )

v) notifyAll ( )

b) Write a short note persistence of IPC objects with an example. [5]

OR

P.T.O.

Q4) a) Write a short note on concurrent LISP. [5]

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

Q5) a) Explain in detail the FENG's classification with an example. [5]

b) Explain different alternatives to CUDA. [5]

OR

Q6) a) Discuss performance analysis of Parallelism. [5]

b) Explain the GPU hardware layout with suitable block diagram. [5]