Total No. of Questions :6]

SEAT No. :

P155

APR. -16/BE/Insem. - 79

[Total No. of Pages :2

B.E. (Computer Engineering)
SOFTWARE DESIGN METHODOLOGIES AND TESTING
(2012 Course) (Semester - II) (410449)

Time : 1Hour]

[Max. Marks :30

Instructions to the candidates:
1) *Answer any 3 questions.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Assume suitable data if necessary.*

Q1) a) Explain COMET and phases of COMET. [5]

b) Draw a state machine diagram for coffee vending machine. [5]

OR

Q2) a) What is extends and include stereotype in use case diagram. Explain with an appropriate example. [5]

b) Draw a sequence diagram for Online shopping system. [5]

Q3) a) Explain client server software architecture. Describe multiple Client/ Multiple Service Architectural pattern with example. [5]

b) Describe location transparency and platform transparency with reference to SOA. [5]

OR

Q4) a) Explain Port, provided interface and required interface with an example.[6]

b) Explain the important characteristics of real time software architecture.[4]

Q5) a) Explain characteristics, consequences and application of Iterator and Observer pattern. [6]

b) Describe Singleton pattern and its significance with an example. [4]

OR

Q6) Write short notes (Any two): [10]

a) Factory Pattern

b) Proxy Pattern

c) Web services

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