

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

P.T.O.

- 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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