

Total No. of Questions :6]

SEAT No. :

P148

BE/Insem./APR-194

[Total No. of Pages : 2

B.E. (Computer Engineering)

410449 : SOFTWARE DESIGN METHODOLOGIES AND TESTING

(2012 Pattern) (Semester - II) (410449)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or 6.*
- 2) *Figures to the right indicate full marks.*

Q1) a) Describe and explain the significance of 4+1 architecture view [5]

b) **With a suitable example explain different stereotype used in the UML diagram [5]**

OR

Q2) a) Justify the need of modeling with an example, what are the different types of modeling in UML? [5]

b) **Draw a sequence diagram of hospital management system [5]**

Q3) a) What you mean by location transparency & platform transparency? Explain with the reference of SOA. [5]

b) **State and explain different architectural view. [5]**

OR

Q4) a) What is the broker pattern? Explain its significance with the SOA [5]

b) **Explain asynchronous message communication pattern with callback pattern with suitable example. [5]**

P.T.O.

Q5) a) What are the different essential elements of design pattern? Explain the significance of each. [5]

b) What is singleton pattern? Explain one scenario where singleton pattern can be applied. [5]

OR

Q6) a) Explain the adapter pattern with reference to the intent, motivation, applicability, implementation and consequences. [6]

b) What are the different criteria to select a good design pattern? Explain in brief. [4]

