

Total No. of Questions :6]

P148

SEAT No. :

[Total No. of Pages : 2

BE/Insem./APR-194

B.E. (Computer Engineering)

**410449 : SOFTWARE DESIGN METHODOLOGIES AND TESTING
(2012 Pattern) (Semester - II) (410449)**

Time : 1 Hour]

Instructions to the candidates:

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

[Max. Marks : 50

- Q1)** a) Describe and explain the significance of 4+1 architecture aiew [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]

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- 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]