

Total No. of Questions : 6]

SEAT No. :

P4211

[4760] - 1194

[Total No. of Pages : 2

M.E. (Computer Engineering)
SOFTWARE DESIGN AND ARCHITECTURE
(2013 Pattern)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates :

- 1) Solve question number 1 or 2, 3 or 4 and 5 or 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 in short the applicability, structure and implementation of [8]

- i) Builder pattern
 - ii) Prototype pattern
- b) What are the formal approaches of design pattern and what are the two major components of a software design method? [8]

OR

Q2) a) What is design patterns? How they are documented using a template? Explain the way they are documented with examples to illustrate from Adapter pattern. [8]

b) What are the major phases of the software design process. [8]

Q3) a) What is the role of architecture and what are the Uses of architecture documentation? [9]

b) What are the four common styles of the module viewtype? Explain in detail. [8]

P.T.O.

OR

- Q4)** a) What is an architecture implementation framework? How does an architecture implementation framework differ from middleware? [9]
- b) What are the concept of systematic reuse and its particular implementation using product lines? [8]
- Q5)** a) Discuss the application domains of interaction - oriented software architectures. [9]
- b) What is architectural pattern? Explain any one pattern with example. [8]

OR

- Q6)** a) Write short notes on:- [9]
- i) Hierarchical Architecture
- ii) Component-Based Software Architecture.
- b) Explain with an examples stakeholder driven modeling. [8]

