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[5060] - 807

M.E. (Computer Engineering) (Semester - II) SOFTWARE DESIGN & ARCHITECTURE (2013 Pattern) Time: 3 Hours] IMax. Marks:50 Instructions to the candidates: 1) Answer any three questions from Q1 or Q2, Q3 or Q4, Q5 or Q6. 2) Neat diagrams must be drawn wherever necessary. 3) Assume suitable data, if necessary. 4) Figures to the right indicate full marks. Explain the applicability, structure & implementation of **Q1)** a) [8] Adapter i) Flyweight Describe design solution. What are the two major components of a software design method. [8] OR *Q2*) a) Explain design patterns. How are they documented using a template Explain the way they are documented with examples to illustrate from FACADE pattern. b) Illustrate with correct examples, various design notations that can be used to depict a system design. [8] **Q3**) a) Explain various styles of Component & connector viewtype. [8] List various Quality Attributes of a system & explain the testability attribute b) with specific examples. [8] OR **Q4**) a) met in Architectural Analysis with an example each.

- Define Architectural Analysis. Discuss various analysis goals that are [8]
 - b) Explain the styles of module view-type and execution Architectural view type. [8]

- **Q5)** a) Describe the components of an Data-centered Software Architecture. Evaluate the benefits and limitations of data-centered Architectures. Examine them when incorporated with other prominent architectures. [9]
 - b) Define Model Driven Architecture (MDA). List and explain various MDA approaches and tools. [9]

OR

- Q6) a) Describe and depict a Complete object oriented analysis & design process and discuss general design principles employed in the context of object-oriented design.[9]
 - b) Describe the concepts of Implicit Asynchronous communication Software Architecture. Discuss the benefits and limitations of the Asynchronous Software Architecture. [9]

