B.Tech Degree VIII Semester Examination April 2011

CS 804 (C) SOFTWARE ARCHITECTURE
(2002 Scheme)

Time : 3 Hours   Maximum Marks : 100

I.   (a)   Explain with suitable examples pipes and filters.   (10)
     (b)   Explain in detail process – control paradigms.   (10)
                                    OR
II. (a)   Explain the architectural styles, layered systems and repositories with suitable
           examples.   (10)
     (b)   Explain heterogeneous architectures. Give suitable examples.   (10)

III. (a)   Explain integration in Software development Environments.   (10)
     (b)   Explain the layered architecture of Multi database system.   (10)
                                    OR
IV. (a)   Explain the architectural structures for shared information systems.   (10)
     (b)   Write a note on the evolution of shared information systems in Business Data
           Processing.   (10)

V.   (a)   Explain the functional dimensions considered in design space.   (10)
     (b)   Explain the design guidance for User Interface Architectures.   (10)
                                    OR
VI. (a)   Explain the rules for designing a user interface.   (10)
     (b)   With a suitable example explain, how a design space is prepared.   (10)

VII. (a)   Briefly explain the various approaches used for formalizing software architecture.   (12)
     (b)   Write short note on first class connectors.   (8)
                                    OR
VIII.   Explain in detail the various steps involved in formalizing the architecture of a
           specific system.   (20)

IX. (a)   Briefly explain the features of anyone universal language.   (10)
     (b)   Explain any two architectural styles. Give examples.   (10)
                                    OR
X.   Write short notes on :
           (i)   Architectural Interconnection   (8)
           (ii)   Aesop   (6)
           (iii) Software Architects Education.   (6)

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