(10 Marks)

USN

b. How do you document a view?

Fifth Semester MCA Degree Examination, December 2012 Software Architectures

Time: 3 hrs. Max. Marks: 100 Note: Answer any FIVE full questions. 1 a. Describe the activities involved in creating a software architecture. (10 Marks) b. Why is software architecture important during early design decisions of building a system? (10 Marks) 2 a. Explain the following architectural styles: i) Pipes and Filters ii) Lavered system iv) Interpreters. iii) Repositories (10 Marks) b. Define keyword in context problem. Discuss on any two architectural solutions for KWIC. (10 Marks) 3 a. What are the parts of a quality attribute scenario? How can it be applied for modifiability quality attribute? b. Define Tactics. How do you use it to achieve security requirements in the architecture? (10 Marks) 4 a. How do you implement a layered architectural pattern? Explain any two known uses of lavers. b. What are the components of the pipes and filter pattern? Describe them with the CRC structure. (10 Marks) 5 a. Give a note on the broker architectural pattern for distributed software systems. What are the benefits and liabilities of the broker architecture? b. What is Presentation – Abstraction control architectural pattern? What are the steps to be implement a PAC architecture? (10 Marks) 6 a. Discuss on the participating components of a microkernel pattern. Give any three benefits of this pattern. (10 Marks) b. Explain the guidelines to implement the reflection architectural pattern. (10 Marks) 7 a. Explain the three variants where the Master - Slave pattern can be applied. What are the benefits of Master – Slave pattern? (10 Marks) b. Give a description on the structure and implementation of Proxy design pattern. (10 Marks) 8 What are the steps performed by ADD approach to design an architecture? (10 Marks)
