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CS–603

B. E. (Sixth Semester) EXAMINATION, June, 2012

(Computer Science & Engg. Branch)

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Distinguish between generic and customized software products. Which one would generate more revenue for a company ? Give the reasons behind your answer. 10

   (b) Explain prototype model. What are the advantages of developing a prototype of a system ? 10

Or

2. (a) Differentiate between a software product and a software process. 10

   (b) Explain how a software development effort is initiated and finally terminated in the spiral model. 10

3. (a) What are the different types of requirements gathering activities that the analysts use to gather requirements from a customer ? 10

P. T. O.

(b) Briefly outline the important steps involved in developing a software system using a popular object oriented design methodology. 10

Or

4. (a) What do you understand by traceability in the context of software requirements specification ? How is traceability achieved ? 10

(b) What are the important issues which an SRS document must address ? 10

5. (a) Compare relative advantages of the object oriented and function oriented approaches to software design. 10

(b) Discuss the different classification of architectural styles with respect to software and discuss each style in detail. 10

Or

6. (a) Explain how the overall cohesion and coupling of a design would be impacted if all modules of the design are merged into a single module. 10

(b) What are the main shortcomings of Data Flow Diagram (DFD) as a tool for performing structured analysis ? 10

7. (a) Distinguish between an error and a failure in the context of program testing. Justify your answer. 10

(b) What do you understand by system testing ? What are the different kinds of system testing that are usually performed on large software products ? 10

Or

8. (a) What is test plan ? Write down the components of test plan and their purpose. 10

   (b) Explain various approaches of testing and also explain their testing methods. 10

9. (a) What do you mean by the term software re-engineering ? Why is it required ? 10

   (b) What is meant by Software Configuration Management ? Why is software configuration management crucial to the success of large software product development projects ? 10

Or

10. Write short notes on the following : 5 each

   (i) Software Quality Assurance (SQA)

   (ii) Project Plan and Metrics

   (iii) Reverse Engineering

   (iv) Project Scheduling