

(c) Explain the following :—

(i) Feasibility study.

(ii) Software Quality assurance plans.

3. Attempt any **two** parts of the following :— (10×2=20)

(a) Discuss the objectives of modular software design. Also explain the concept of coupling.

(b) Write down the differences between object oriented and function oriented design.

(c) Define software metrics. Why metrics are required in Software ? Discuss.

4. Attempt any **two** parts of the following :— (10×2=20)

(a) Discuss the White Box testing in detail.

(b) What do you understand by term Integration testing ? Discuss the different types of integration testing methods in brief.

(c) Discuss the following in brief :—

(i) Formal Technical Review.

(ii) Coding standards.

5. Write short notes on any **two** :— (10×2=20)

(a) Constructive Cost Model (COCOMO)

(b) Risk Analysis.

(c) Software Maintenance.

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 0114

Roll No.

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**B. Tech.**

(SEM. IV) THEORY EXAMINATION 2011-12

**SOFTWARE ENGINEERING**

Time : 3 Hours

Total Marks : 100

**Note :—** (1) Attempt all questions.

(2) All questions carry equal marks.

1. Attempt any **two** parts of the following :— (10×2=20)

(a) Discuss the main objectives of the Software Engineering. Also explain the advantages of prototyping model over waterfall model.

(b) Explain the spiral model of Software development. Also discuss the limitations of this model.

(c) Explain the following :—

(i) Software Quality attributes.

(ii) Software Crisis.

2. Attempt any **two** parts of the following :— (10×2=20)

(a) What is Software requirements specification document ? Explain the various characteristics of SRS.

(b) (i) Discuss the relative advantages of formal and informal requirements specification.

(ii) Define the term data dictionary. What are its advantages ?