

Roll No.

24332

B. Tech. 6th Semester (IT)

Examination – May, 2014

Principles of Softwares

Paper : CSE-302-F

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions. Q. 1 is *compulsory*. Select *one* question from each Section.

1. (a) What is software engineering ?

(b) What is project metrics

(c) What is data dictionary

(d) What is information hiding

(e) What is forward engineering

(f) What is recover testing

(g) define CASE tool

(h) What is FTR ?

SECTION – A

2. (a) What is software crisis. State its significance in reference to software engineering discipline.

(b) What are the different risk management activities ? Explain.

3. (a) What do you understand by project scheduling ? Also enumerate the activities involved in project scheduling.

(b) Explain iterative enhancement model of S/W development life cycle.

SECTION – B

4. (a) Describe the difference between coupling and cohesion. Explain various type of cohesion.

(b) What is software design ? Discuss the design principles in details.

5. (a) What is software requirement specification ? How it is prepared ? Explain.

(b) Describe the basic component of a DFD. Draw a DFD describe inventory management system.

SECTION – C

6. (a) Design various test cases to find out the root of a quadratic equation using various method of functional testing.

- (b) Differentiate between a database and data warehouse. What is the utility of data warehouses in current scenario.
7. (a) Describe reverse engineering and Re-engineering and differentiate between the two.
- (b) Differentiate between :
- (i) Alpha and Beta Testing
- (ii) Verification and Validation

SECTION – D

8. (a) What is software quality ? Discuss the software quality attributes.
- (b) What do you mean by software configuration management ? Discuss
9. (a) Explain SQA activities in details
- (b) What is meant by ISO ? Discuss the relative merits of ISO 9000 certification.
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