

Roll No. ....

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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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