



310253

Seat No.	
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**T.E. (Computer) (Semester – II) Examination, 2014
SOFTWARE ENGINEERING
(2008 Course)**

Time : 3 Hours

Max. Marks : 100

- Instructions :** 1) Answers to the **two** Sections should be written in **separate** answer books.
2) Answer **any three** questions from **each** Section.
3) Neat diagrams must be drawn **wherever** necessary.
4) Figures to the **right** side indicate **full** marks.
5) **Use** of calculator is **allowed**.
6) Assume suitable data if necessary.

SECTION – I

1. a) Define software engineering. What are the software characteristics ? What are the various categories of software ? 10
b) State and explain customer's myths. 4
c) Explain in detail software crises. 4

OR

2. a) What is software process model ? Explain the incremental process model. 8
b) Explain in detail process pattern. 6
c) What are the management myths ? 4
3. a) Explain the scenario based elements of analysis model in detail. 8
b) Explain in detail requirement engineering task. 8

OR

4. a) What are the characteristics that requirement must meet ? 6
b) Draw and explain the traceability table for requirement management. 6
c) Describe two real time situation in which the customer and the end-user is same. Describe two situation in which they are different. 4

OR

5. a) What are the design quality guidelines ? 8
b) What are the elements in data design ? What are the guidelines for the data design ? 8

OR

6. a) Explain the Web Application Architecture. 8
b) What are the interface design principles and guidelines ? 8

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SECTION – II

7. a) What is importance of testing practices ? What are the principles of testing practices ? 8
b) Explain in detail : 8
 1) Top-down integration testing
 2) Bottom-up testing.
 OR
8. a) What is cyclomatic complexity ? How is it determined for a flow graph ? Illustrate with example. 8
b) Explain following testing types 8
 1) Validation testing
 2) Acceptance testing
 3) Smoke testing process.
9. a) What are the categories of stakeholders ? What are the characteristics of effective project manager ? 8
b) What are the attributes of effective software metrics ? Explain in detail Defect Removal Efficiency. 8
 OR
10. a) How do you measure software quality in terms of maintainability and integrity ? 6
b) What is Object Oriented metric ? 6
c) Explain size oriented metric ? What data should we collect to derive size oriented metrics ? 4
11. a) What are the software quality factors ? Explain any four. 12
b) What are the types of risks ? Explain in brief. 6
 OR
12. a) What is configuration audit ? What is status reporting ? 8
b) Write short note on : 10
 1) RMMM 2) Change control process
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