



[4658] – 160

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) Answer **3** questions from Section I and **3** questions from Section II.
2) Answers to the **two** section should be written in **separate** books.
3) Neat diagrams must be drawn **wherever** necessary.
4) Black figures to the **right** indicate **full** marks.
5) Assume suitable data, if **necessary**.

SECTION – I

1. a) Define Software Engineering. Explain the importance of Software Engineering. 6
- b) Explain the incremental model with advantages and disadvantages. 6
- c) What is software myth ? Give an example. 4

OR

2. a) Explain the Extreme Programming Process. 6
- b) Explain how component based development reduces the time of software development ? 6
- c) What are the disadvantages of the water fall model ? 4
3. a) Explain the data flow diagram with an example. 8
- b) Explain the elements of an analysis model. 8

OR

4. a) Give the use case diagram for 'Library book issue system'. Write the scope of the system. 8
- b) Explain the elements of an activity diagram with an example. 8
5. a) Explain any two architectural styles. 8
- b) Explain modularity and information hiding in software design. 6
- c) What is component level design ? 4

OR

6. a) Explain the user interface design process. 8
- b) How functional independence is achieved in software design ? 6
- c) What do you mean by application accessibility and internationalization in user interface design ? 4

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SECTION – II

- 7. a) What is software testing ? Explain the software testing strategies. 8
- b) How test cases are derived in basis path testing ? 6
- c) What do you mean by performance testing ? 4

OR

- 8. a) Explain and compare incremental integration testing strategies. 8
- b) Explain the debugging tactics. 6
- c) What is acceptance testing ? 4
- 9. a) Explain the function point method for estimation. 8
- b) Explain the Make-buy decision with an example. 8

OR

- 10. a) How problem based estimation is carried out ? Explain with an example. 8
- b) Give different team structures for software development team. 8
- 11. a) Explain the following in brief. 8
 - i) Risk assessment
 - ii) SCM repository.
- b) What is work break down structure ? How this is used in task network of project scheduling ? 8

OR

- 12. a) Explain any four quality measures of software. 8
- b) Explain the tracking of software development schedule. 8
