Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 75552

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Sixth Semester

Computer Technology

XCS 361 – SOFTWARE ENGINEERING

(Common to 5 Year M.Sc. Information Technology)

(Regulation 2003)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the characteristics of a software process.

2. What is the need for software confguration management?

3. What is meant by validation of SRS?

4. Define problem analysis.

5. What is the need for project scheduling?

6. What is a project plan?

7. What is modularity?

8. State the objectives of testing.

9. What is meant by information hiding?.

10. Define reliability.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the software development process models and their limitations.
                                                                                    (16)

Or

(b) (i) Explain the software quality attributes.   (8)

(ii) Distinguish between process and project.   (8)

12. (a) Explain the desirable characteristics and components of a SRS. (16)

Or

(b) (i) Explain the structure of a requirements document. (8)

(ii) Explain the types of errors that occur in a SRS and the techniques for validation of SRS. (8)

13. (a) Explain the cost and effort estimation methods. (16)

Or

(b) Explain the activities in risk management planning. (16)

14. (a) Explain the principles of design and notations used in function oriented design. (16)

Or

(b) Explain the structured design methodology with an example. (16)

15. (a) (i) Explain the good programming practices to be followed for simple and error free code writing. (8)

(ii) Explain the stages in the inspection process. (8)

Or

(b) (i) Explain the metrics used during testing. (8)

(ii) Explain unit testing. (8)

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