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**Question Paper Code : 45266**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Second Semester

Software Engineering

ESE 021 — SOFTWARE ENGINEERING — I

(Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the characteristics of a software process.
2. Which of the software engineering paradigms would be more effective? Why?
3. Write the various metrics of process.
4. Define requirement engineering.
5. Mention various team structures in organization.
6. List the activities of software configuration management.
7. Write note on architecture design and data design.
8. Define cohesion.
9. What is meant by structured programming?
10. List the difference between functional testing and structural testing.

PART B — (5 × 16 = 80 marks)

11. (a) Write the various problems in software engineering. Discuss the software development process elaborately.  
Or  
(b) What are the differences between project and product? Illustrate the project management process briefly.

12. (a) Describe in detail about software requirement specification.

Or

(b) Explain the various approaches for validating the software. State the reasons to measure the metrics. Discuss the categories of software measurement briefly.

13. (a) What is meant by software cost estimation? Discuss the types of software cost estimation. State the reasons for the failure of software cost estimation.

Or

(b) Explain the process of risk analysis and management in detail.

14. (a) Describe the concepts of module level. What is the need of module level? Discuss the various criteria that are used in module level.

Or

(b) Illustrate the function-oriented design and structured design with suitable examples.

15. (a) Mention the various programming practice. Elaborately discuss the guidelines for internal and external documentation.

Or

(b) What is meant by software testing? Why it is needed? Discuss the various types of software testing briefly.