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Question Paper Code : 75485

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

Fourth Semester

Software Engineering

ESE 041 — SOFTWARE ENGINEERING – II

(Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the several ways by which optimizing process helps people to be effective?
2. Enlist the six basic principles of software process change.
3. What are the elements of an effective commitment?
4. State the goals of software quality assurance.
5. What are the reasons for using software standards?
6. "The continuing role of the software engineering process group is divided into six categories" what are they?
7. What are the principles of effective data gathering?
8. What are the general classes of the quality measures? How are these measures characterized?
9. Why is defect prevention crucial to the software process?
10. What are the six requirements for software process change?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the strategy for implementing software process change.

Or

- (b) Explain the assessment Process. Why are Software organizations chaotic?

12. (a) Give an account on the basic configuration management functions.

Or

(b) Explain the different kinds of software productivity factors.

13. (a) "Inspections should be conducted at every point in the development or maintenance process." Show how it is planned and executed.

Or

(b) Discuss the methods for planning, preparing, conducting, and analyzing the key types of tests.

14. (a) What are the criteria's for measurement? Explain how they support in product acceptance decisions.

Or

(b) Explain the different kinds of Software Engineering data analysis and indicate the ways in which data can be used to support software development and maintenance.

15. (a) What are the principles of Software defect prevention? Explain the implementation steps for a defect prevention program.

Or

(b) (i) Discuss the need and significance of software optimization process. (6)

(ii) Explain the tools and methods used for software optimization process. (10)