What are the relative advantages of using either the LOC or the function

Code: 105401

## 2013 (A)

## SOFTWARE ENGINEERING

Time: 3 hours

Full Marks: 70

## Instructions:

AK13-350/234

- (i) The marks are indicated in the right-hand margin.
- (ii) There are TEN questions in this paper.
- (iii) Attempt any FIVE questions.
- 1. What is the principal aim of the software engineering discipline? What does the discipline of software engineering discuss? 14
- 2. (a) Distinguish between a program and a software product.
  - (b) Draw a schematic diagram to represent the iterative waterfall model of software development. 7+7=14
- 3. What are the objectives of the feasibility study phase of software development? Explain the important activities that are carried out during the feasibility study phase of a software development project.

( Turn Over )

point metric to measure the size of a software product? List the major responsibilities of a software project manager. 7+7=14

- 5. (a) How are the functional and nonfunctional requirements different?
  - (b) Draw a sequence diagram of ATM withdrawal. 7+7=14
- 6. (a) What are the types of user-interface design?
  - Explain the stages of object-oriented design process. 7+7=14
- 7. (a) According to Boehm, how verification and validation different?
  - (b) What are various approaches taken for test-case design? 7+7=14
- 8. (a) What do you mean by algorithmic cost models?
  - (b) Explain . Humphrey's structure for quality plan. 7+7=14

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(Continued)

- 9. (a) Explain the maintenance cost distribution with effort distribution chart.
  - (b) Explain the process metrics used for assessing maintainability. 7+7=14
- 10. (a) Explain the approaches for quality control.
  - (b) Explain Lehman's law for program evolution dynamics. 7+7=14

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