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## Fifth Semester B.E. Degree Examination, Dec.09/Jan.10

### Software Engineering

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

#### PART – A

- 1 a. What are the attributes of a good software? Explain. (06 Marks)  
 b. Mention the different stages in a system development. Explain any four phases. (10 Marks)  
 c. Define and distinguish between the system reliability and availability. (04 Marks)
- 2 a. What is process iteration? Explain Boehm's spiral model. (10 Marks)  
 b. With an example, explain the functional and non-functional requirements. (10 Marks)
- 3 a. Explain the need for requirements elicitation and analysis. Explain the different process activities involved. (10 Marks)  
 b. Why risk management is important in project management? Explain different stages in risk management. (10 Marks)
- 4 a. What is data flow model? With an example, show the notations used in data flow model. (10 Marks)  
 b. Explain the terms :  
     i) Domain requirements (03 Marks)  
     ii) User requirements (03 Marks)  
     iii) System requirements. (04 Marks)

#### PART – B

- 5 a. Explain why it is necessary to design the system architecture. What are the system factors affected by system architecture? Explain. (10 Marks)  
 b. Distinguish between an object and an object class. Give example. (06 Marks)  
 c. What are concurrent objects? Explain different kinds of concurrent object implementations. (04 Marks)
- 6 a. What is rapid delivery and deployment of new systems? Explain its importance. (10 Marks)  
 b. What are the different types of software maintenance? What are the key factors that distinguish development and maintenance? (10 Marks)
- 7 a. Distinguish between software inspection and testing. What are the advantages of inspection over testing? (08 Marks)  
 b. Explain with illustrations :  
     i) Integration testing (06 Marks)  
     ii) Release testing (06 Marks)
- 8 a. Explain Maslow's human-needs hierarchy of motivating people. (10 Marks)  
 b. What are the factors affecting software pricing? What are the two types of metrics used? Explain. (10 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and/or Equations written eg, 42+8=50, will be treated as malpractice.