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B.E. VI Semester

Examination, June 2013

Software Engineering and Project Management

Time: Three Hours

Maximum Marks: 70/100

Note: Attempt all questions. Each question carry equal marks.

- a) Discuss the major differences between software engineering and some other engineering discipline, such as bridge design or house building. Would you consider state-of-the-art software engineering as a true engineering discipline?
 - Explain the unified approach to software development.
 Discuss the merits and demerits of this approach.

OR

- a) What do you understand by a layered software design? What are the advantages of a layered design? Explain your answer by using suitable examples.
 - b) Explain the Software Life Cycle Model in detail.
- a) Explain the notations cohesion and coupling.
 - b) The estimated size for military software is 106 KDSI. What is the expected effort obtained with the use of the COCOMO Model?
 - c) Explain in detail about COCOMO model.

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OR

 a) Compute the function point value for a project with the following:

Information domain characteristics.

Number of external inputs: 32

Number of external outputs: 60

Number of external inquires: 24

Number of external interface files: 2

Number of internal logical files: 8

Assume that all complexity adjustment values are average.

- b) What is the role of effort estimation in a project, and why is it important to do this estimation early?
- a) Explain the ways and means for collecting the software requirements and how are they organized and represented.
 - Differentiate between data structure design and object oriented design.

OR

- 6. a) Why is accurate estimation of the effort required for completing a project difficult? Briefly explain the different effort estimations methods that are available. Which one would be most advisable to use and why?
 - b) Describe the design process in software development. What are the characteristics and criteria for design?
- a) Explain the integration testing process and system testing processes and discuss their outcomes.
 - b) What is black box testing? Is it necessary to perform this? Explain various test activities.

OR

- 8. a) What are the testing principles the software engineer must apply while performing the software testing?
 - Define the term Component? What are the benefits of Component-based software engineering (CBSE).

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9. Explain the following terms (Any four):

Project Scheduling

Reverse Engineering

Web Engineering

Software Quality Assurance

Risk Analysis

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