

IV B.Tech I Semester Supplementary Examinations, November 2008
SOFTWARE ENGINEERING
(Computer Science & Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the recent advances in one of the leading edge software application areas among :
 - (a) Web based application. [8]
 - (b) Virtual Reality. [8]
2. Explain the Grady's private and public use for different types of process data. [16]
3. What are viewpoint-oriented methods of requirements analysis? What are their advantages and disadvantages? [16]
4. (a) "Data Modeling can be viewed as a subset of OOA". comment on this statement and justify your comments. [8]
(b) "Object Oriented Analysis is radically different from the conventional Structured analysis approach", comment on this statement. [8]
5. Represent the different types of Couplings on the spectrum and explain them clearly with an example to each. [16]
6. (a) State and explain user interface evaluation cycle. [8]
(b) Write short notes on the Interface Standards. [8]
7. Describe software maintenance activities and discuss about re-engineering. [16]
8. Discuss in detail about Business Process Reengineering. [16]

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1. What is Computer Software? Why is it important? Explain the impact of software on our society and culture. [16]
2. Compare the direct and indirect measures of software engineering. [16]
3. (a) Can an object stand alone? Justify your answer with an example. [8]
(b) Write outline for object description, and explain each item in the outline. [8]
4. (a) Describe Assembly Line Diagram (ALD) with an example. [8]
(b) Describe Entity diagrams with an example. [8]
5. (a) What is program structure? Draw the most common control structure and explain different concepts defined in it. [8]
(b) What are the classic data structures that form the building blocks for more sophisticated structures? [8]
6. Describe the best interface that you have ever worked with and critique it relative to the concepts introduced in user interface design. [16]
7. Describe software maintenance activities and discuss about re-engineering. [16]
8. (a) Discuss the various debugging methods. [8]
(b) Discuss the different software faults. [8]

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1. Write short notes on
 - (a) Software engineering paradigm. [6]
 - (b) Software requirement analysis. [5]
 - (c) Advantages of spiral model. [5]
2. Explain the quality metric which will provide benefit at both project and process level. [16]
3. What are the important characteristics of an SRS? Explain the importance of each characteristic. [16]
4.
 - (a) Briefly explain the models used for structures analysis [8]
 - (b) Explain about jacks on system development. [8]
5.
 - (a) What is program structure? Draw the most common control structure and explain different concepts defined in it. [8]
 - (b) What are the classic data structures that form the building blocks for more sophisticated structures? [8]
6. Describe the best interface that you have ever worked with and critique it relative to the concepts introduced in user interface design. [16]
7. Write short notes on the following:
 - (a) Halstead's theory of software science. [8]
 - (b) Interface Design Metrics. [8]
8.
 - (a) Why is completeness more difficult to achieve as abstraction level increases?
 - (b) Why interactivity must increase if completeness is to increase?
 - (c) Explain the differences between restructuring and forward engineering. [5+5+6]

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1. Explain the Software Applications. [16]

2. Describe briefly
 - (a) UML [4]
 - (b) LCA [4]
 - (c) LCO [4]
 - (d) IOC [4]

3. (a) Can an object stand alone? Justify your answer with an example. [8]
(b) Write outline for object description, and explain each item in the outline. [8]

4. (a) Explain how Data Structure oriented methods represent software requirements by focusing on data structure rather than data-flow? [8]
(b) Write similarities and differences between DSSD and JSD. [8]

5. (a) Explain the different steps to be conducted for software design from project management point of view. [8]
(b) Explain how each step in Software Engineering process is a refinement in the level of abstraction of the software solution. [8]

6. (a) State and explain the different models that come into play when a Human-Computer Interface (HCI) is to be designed. [10]
(b) What are the design issues to be considered in user interface design? [6]

7. Describe software maintenance activities and discuss about re-engineering. [16]

8. Discuss in detail about Business Process Reengineering. [16]
