

IV B.Tech. I Semester Regular Examinations, November -2005
SOFTWARE ENGINEERING
(Computer Science & Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Choose an application of your own and [8]
i. Indicate the Software application category into which it fits.
- (b) The data content associated with the application. [8]
2. Explain software process metrics with a real time example. [16]
3. (a) State and explain different characteristics suggested by Coad and Yourdon that analyst considers each potential object for inclusion in the analysis model, and write an example. [8]
- (b) Explain with an example how processing narrative of a project is useful to develop a meaningful set of attributes for an object. [8]
4. Explain the following briefly.
 - (a) Alternative Analysis techniques. [8]
 - (b) Requirement analysis techniques. [8]
5. (a) Explain the relationship in software design in technical aspects and management aspects. [8]
- (b) What is formal technical review? Explain how it will assess software design quality. [8]
6. (a) State and explain user interface evaluation cycle. [8]
- (b) Write short notes on the Interface Standards. [8]
7. Explain various software quality standards and discuss how to assure them. [16]
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 recent advances in one of the leading edge software application areas among :
 - (a) Web based application. [8]
 - (b) Virtual Reality. [8]
2. Define software metrics. Why is it important and what are the steps involved? [16]
3. Draw a process model showing how a requirements review might be organized. Justify your answer. [16]
4. (a) Describe Assembly Line Diagram (ALD) with an example. [8]
(b) Describe Entity diagrams with an example. [8]
5. (a) State and explain the criteria proposed for judging a design methods ability to achieve modularity. [8]
(b) State and explain the forms that the Design description of an object can take place. [8]
6. (a) State and explain user interface evaluation cycle. [8]
(b) Write short notes on the Interface Standards. [8]
7. Elaborately discuss about control structure testing. [16]
8. (a) Discuss about loop testing. [8]
(b) Discuss about software maintenance costs. [8]

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1. Explain the software process models. [16]
2. What is meant by risk assessment? What are the different steps to be performed in risk assessment? Explain. [16]
3. Explain the different activities to be carried out in the requirements analysis phase and explain the importance of each activity in the process. [16]
4. (a) What is Information modeling? For which applications Information modeling is useful. [8]
(b) Write a simple E-R diagram and convert it into Data Object table? And explain the Data-object-type hierarchy. [8]
5. What is Software Design? Explain Data Flow oriented design. [16]
6. Describe the worst interface that you have ever worked with and critique it relative to the concepts that you have studied in user interface design. [16]
7. Explain various software quality standards and discuss how to assure them. [16]
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 recent advances in one of the leading edge software application areas among :
 - (a) Web based application. [8]
 - (b) Virtual Reality. [8]
2. Explain how the product and process are related. [16]
3. Explain about Object Oriented concepts. [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. (a) Explain what is meant by architectural design? Which information from analysis phase is useful to perform architectural design? [8]
(b) “Design stage is crucial step in Software Engineering”, comment on this statement and justify your comments. [8]
6. (a) State some guidelines which focus on Data input in User Interface Design. [8]
(b) What is Software Procedure? Explain with an example. [8]
7. Explain various software quality standards and discuss how to assure them. [16]
8. (a) Discuss about loop testing. [8]
(b) Discuss about software maintenance costs. [8]
