

Code No: R22051

R10**SET - 1****II B. Tech II Semester, Supplementary Examinations, Dec – 2012****SOFTWARE ENGINEERING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** QuestionsAll Questions carry **Equal** Marks

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1. What is software? Explain the importance and role of it in modern world.
2. a) What is a software requirement? Explain the significance of gathering correct requirements.  
b) Differentiate between functional and non-functional requirements.
3. Explain about requirements elicitation and analysis in detail.
4. What is design engineering? Explain about various design concepts in detail.
5. Explain about object oriented design process in detail.
6. What is maintenance? Explain about various metrics for source code and maintenance in detail.
7. Write short notes on the following.
  - a) Risk Identification
  - b) Software risks
  - c) Risk refinement.
8. What is ISO? Explain about various ISO 9000 standards in detail.

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**R10****SET - 2****II B. Tech II Semester, Supplementary Examinations, Dec – 2012****SOFTWARE ENGINEERING**  
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

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Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

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1. What is a software myth? Explain about various software myths in detail.
2. Explain about various incremental process models in detail.
3. Explain about various types of feasibility studies done in requirements engineering.
4. What is a design quality? Explain how is it assessed in detail.
5. What is an user interface design? Explain about various golden rules for it.
6. What is a testing strategy? Explain about various testing strategies for conventional software.
7. What is a metric? Explain about various metrics for assessing software quality in detail.
8. Write short notes on the following.
 - a) Pro-active risk strategy.
 - b) Risk identification.
 - c) Risk projection.

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R10**SET - 3****II B. Tech II Semester, Supplementary Examinations, Dec – 2012****SOFTWARE ENGINEERING**
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. What is CMMI? Explain about it in detail.
2. What is a software requirements document? Explain the structure of it in detail.
3. Explain about the requirements engineering process in detail.
4. Explain about creating an architectural design in detail.
5. What is an object oriented design? Explain about various concepts of it.
6. a) What is a white-box testing? Differentiate between white-box and black-box testing in detail.  
b) Explain about the art of debugging in detail.
7. a) Explain the metrics for Software Quality.  
b) Describe Risk Identification.
8. Write short notes on the following.
  - a) Formal technical reviews.
  - b) Statistical SQA.
  - c) Software reliability.

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**R10****SET - 4****II B. Tech II Semester, Supplementary Examinations, Dec – 2012****SOFTWARE ENGINEERING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** QuestionsAll Questions carry **Equal** Marks

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1. What is a process model? Explain about team and process models in detail.
2. Explain about evolutionary process models in detail.
3. What is requirements management? Explain the significance of it in detail.
4. What is a software architecture? Explain about various architectural styles and patterns in detail.
5.
 - a) Explain about various steps of user interface design.
 - b) How would you evaluate user interface design?
6. What is software testing? Explain about the strategic approach to it in detail.
7.
 - a) Compare the contrast reactive and proactive Risk strategies.
 - b) Explain about risk refinement
8. Write short notes on the following.
 - a) SQA.
 - b) Software reliability.
 - c) Software Reviews.