Code No: V0521　　　　　　　　　(**R07**)　　　　　　　　　(SET - 1)

II B. Tech II Semester Supplementary Examinations April/May – 2013
SOFTWARE ENGINEERING
(Com. to CSE, IT, CSS)

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　　　　Max. Marks: 80

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

1.　Briefly explain:
　　　a) Software myths.
　　　b) Use cases.
　　　c) Object identification.
　　　d) Unit testing.
　　　e) Technical risks.　　　　　　　　　　　　　　　(4M+3M+3M+3M+3M)

2.　a) What are the phases of the unified process?
　　b) What are the functional and non-functional requirements of a Software Systems?　(8M+8M)

3.　a) Briefly explain requirements engineering tasks.
　　b) Explain in detail the behavioral models of a software system.　　　　(8M+8M)

4.　a) Explain in detail the design classes involved in software design.
　　b) What is an architectural pattern? Discuss various issues associated with it.　(8M+8M)

5.　a) Explain in detail Thoe Mandels golden rules on interface design.
　　b) Explain in detail the user analysis for a solid foundation of interface design.　(8M+8M)

6.　a) What is the art of debugging?
　　b) What are the metrics for analysis model?　　　　　　　　　　(8M+8M)

7.　a) Explain in detail about risk identification.
　　b) Describe the RMMM plan.　　　　　　　　　　　　　　(10M+6M)

8.　a) What is software quality control and what are the components of the cost of quality?
　　b) Explain the steps involved to perform statistical software quality assurance.　(6M+10M)

1 of 1

|''|'||'|''|'|''|''''|

Code No: V0521 $\quad$ (**R07**) $\quad$ (SET - 2)

II B. Tech II Semester Supplementary Examinations April/May – 2013
SOFTWARE ENGINEERING
(Com. to CSE, IT, CSS)

Time: 3 hours $\qquad\qquad$ Max. Marks: 80

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

1. Briefly explain:
   a) Personal software process.
   b) Quality attributes of software design
   c) Object interface specification.
   d) Regression testing.
   e) Known risks. $\qquad$ (4M+3M+3M+3M+3M)

2. a) Explain in detail the spiral model.
   b) Explain in detail the software requirements specification. $\qquad$ (8M+8M)

3. a) Briefly explain requirements validation.
   b) How to produce models for an existing system. $\qquad$ (8M+8M)

4. a) Explain Abstraction, Architecture, Patterns and Modularity in terms of software design.
   b) Explain in detail the software architecture. $\qquad$ (8M+8M)

5. a) Explain in detail the design evaluation.
   b) How do we apply interface design steps? Explain with an example. $\qquad$ (8M+8M)

6. a) What is system testing?
   b) Discuss about Mc Call's Quality factors. $\qquad$ (8M+8M)

7. a) What is Risk Mitigation, Monitoring and Management.
   b) What is risk projection? Explain how to develop a risk table. $\qquad$ (10M+6M)

8. a) Explain in detail about software reviews.
   b) Explain ISO 9000 Quality Standards. $\qquad$ (10M+6M)

|''|'||'|''|'|''''|

Code No: V0521 **R07** SET - 3

II B. Tech II Semester Supplementary Examinations April/May – 2013
SOFTWARE ENGINEERING
(Com. to CSE, IT, CSS)

Time: 3 hours   Max. Marks: 80

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

1. Briefly explain:
    a) CMMI.
    b) Software engineering.
    c) Architectural design.
    d) Black-box and white-box testing.
    e) Project risks.   (4M+3M+3M+3M+3M)

2. a) Explain in detail the incremental process models.
    b) Explain in detail the user requirements.   (8M+8M)

3. a) What is viewpoint? Discuss various viewpoint oriented approaches to requirements engineering.
    b) Describe various data models for the software system.   (8M+8M)

4. a) Explain information hiding, functional independence and refinement concepts of software design.
    b) Briefly explain the software architecture.   (8M+8M)

5. a) Explain in detail the objects and object classes.
    b) Explain in detail about user interface analysis and design. (8M+8M)

6. a) Describe validation criteria.
    b) Explain how integration testing method is applied for conventional software.   (8M+8M)

7. a) Write about the metrics for software quality?
    b) How to assess the consequences of a risk.   (10M+6M)

8. a) What is a formal technical review? Explain when do we conduct formal technical review
    b) What are the core steps of the six sigma methodology?   (10M+6M)

|''|'|'||'|''|'|'|''''|

Code No: V0521 $\qquad$ **R07** $\qquad$ **SET - 4**

II B. Tech II Semester Supplementary Examinations April/May – 2013
SOFTWARE ENGINEERING
(Com. to CSE, IT, CSS)

Time: 3 hours $\hspace{6cm}$ Max. Marks: 80

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

1. Briefly explain:
    a) Process assessment.
    b) Characteristics of a good design
    c) Design evolution.
    d) Smoke testing.
    e) Business risks. $\hspace{4cm}$ (4M+3M+3M+3M+3M)

2. a) Explain in detail the prototyping process model with merits and demerits.
    b) Explain in detail the structured language specification. $\hspace{2cm}$ (8M+8M)

3. a) Explain in detail the requirements management for software systems.
    b) Briefly explain the context models associated with the system. $\hspace{1cm}$ (8M+8M)

4. a) Explain the pattern based software design.
    b) What is architectural style? Discuss various categories of it. $\hspace{1cm}$ (8M+8M)

5. a) Write about task analysis and modeling techniques.?
    b) What are the design issues of a user interface? $\hspace{2.5cm}$ (8M+8M)

6. a) Explain metrics for the design model.
    b) Explain metrics for object oriented testing. $\hspace{3cm}$ (10M+6M)

7. a) Explain in detail about software measurement.
    b) What is risk refinement? Explain. $\hspace{4cm}$ (10M+6M)

8. a) How do we define software quality?
    b) Briefly explain software reliability. $\hspace{3.5cm}$ (8M+8M)

1 of 1

|''|'||'|''|'|''"|