

**BE (Sixth Semester)**  
*Computer Science Engineering*  
*Software Engineering and Project Management - 322654(22)*  
*2015 - Summer Session , New Scheme*

### Chapter 1

1 Put Yes or No in the blank boxes of the table given ahead :

**2**

	Characteris- tics	Waterfall	Proto- type	Spiral	RAD
(1)	Are the requirement easily defined and/or well known.				
(2)	Is the system expected to be modified, perhaps in ways not anticipated, post development?				
(3)	Is early functionally a requirement?				
(4)	Are the user representative experts in the problem domain?				

2 What are the different software myths from management, customer and practitioner perspective? **7**

3 Describe CMMI in details. **7**

4 Differentiate between "the model which is simplest one and developed by Royce" and "the model in which risk analysis is done". **7**

## Chapter 2

- 1 What are the main activities carried out during requirement analysis and specification phase? **2**  
What is the final outcome of the requirement analysis and specification phase?
- 2 Explain Behavioural model with example. **7**
- 3 In software engineering there is a process to create and maintain a system requirement document. The overall process includes the following activities : **7**
  - (a) Feasibility activities
  - (b) Elicitation and analysis
  - (c) Specification
  - (d) ValidationDescribe above activities in detail.
- 4 What is SRS? Why do we need SRS? Mention some characteristics of SRS and describe the IEEE SRS format. **7**

## Chapter 3

- 1 Explain Hallstead's Software Science. **2**
- 2 How is cyclomatic complexity calculated in a flow graph? Describe with an appropriate example. **7**
- 3 Why do we need modularization? What are the different criteria of modularization? **7**
- 4 Differentiate between Cohesion and Coupling. **7**

## Chapter 4

- 1 What are the different test strategies used for software? **2**
- 2 Differentiate between glass box testing and behavioural testing. **7**
- 3 Describe the different approaches of integration testing. **7**
- 4 Explain system testing in details. **7**

## Chapter 5

- 1 What is Risk Management? Who does it do? **2**
- 2 Explain CASE environment. Discuss its architecture and benefits. **7**
- 3 Write short notes on the following : **7**
  - (a) RMMM
  - (b) SQA(Software Quality Assurance )
- 4 Explain the different categories of software risks that are likely to encounter as software is built. State the seven principles of RISK management introduced by SEI. **7**