

**B.TECH SEM – V (2007 COURSE) (INF. TECH.) : SUMMER -**

**2018**

**SUBJECT: SOFTWARE ENGINEERING**

Day: **Friday**  
Date: **25/05/2018**

**S-2018-2678**

Time: **10.00 AM TO 01.00 PM**  
Max Marks: **80**

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**N.B.:**

- 1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
  - 2) Answers to both the sections should be written in the **SEPARATE** answer books.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
  - 4) Figures to the right indicate **FULL** marks.
  - 5) Assume suitable data if necessary.
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**SECTION – I**

- Q.1** a) Briefly specify management myths, which causes serious problems in software engineering? [05]
- b) Define following measures of quality: i) Maintainability ii) Integrity. [05]
- c) Explain ISO 90001:2000 standard. [04]
- Q.2** a) Describe agile principles followed in agile methodology. [07]
- b) Describe advantages and disadvantages of Rapid Application Development Model (RAD). [06]
- Q.3** a) Explain how a decision tree analysis help in make buy decision. [07]
- b) Define Risk. What are different types of risks? [06]
- Q.4** a) What is feasibility study? Explain different types of feasibility. [07]
- b) Define Software Configuration Management (SCM). Explain role of SCM repository. [06]

**SECTION – II**

- Q.5** a) Write QFD (Quality Function Deployment). [05]
- b) Explain information hiding and modularity design concept. [05]
- c) What is UML? List UML diagrams. [04]
- Q.6** a) Write and explain SRS (Software Requirement Specifications) format. [07]
- b) Draw data flow diagram notations and their use. [06]
- Q.7** a) What is cohesion and coupling? Explain layers of cohesion. [07]
- b) Explain how analysis model elements are mapped into software design elements use suitable diagram. [06]
- Q.8** a) Compare conventional software engineering with object oriented software engine. [07]
- b) Explain object oriented polymorphism and inheritance with suitable example. [06]

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