**Registration No :** | | | | | | | | | | |

**Total Number of Pages : 01** **B.Tech**
**PCS3G001**

**3rd Semester Regular Examination 2018-19**
**SOFTWARE ENGINEERING**
**BRANCH : CSE**
**Time : 3 Hours**
**Max Marks : 100**
**Q.CODE : E970**

**Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.**
**The figures in the right hand margin indicate marks.**

## Part- I

**Q1** **Short Answer Type Questions (Answer All-10)** **(2 x 10)**

**a)** What are the merits of incremental model?
**b)** Explain Software Crisis.
**c)** What are the golden rules for User Interface Design?
**d)** What are non-functional requirements?
**e)** Distinguish between verification and validation.
**f)** What are the characteristics of good SRS document?
**g)** What is Cyclomatic complexity? What is its purpose?
**h)** What is software reliability? Define.
**i)** What is regression testing? Give example.
**j)** What is the importance of software reviews?

## Part- II

**Q2** **Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)** **(6 x 8)**

**a)** Elaborate on the changing nature of software in detail.
**b)** State and explain various software myths.
**c)** Elaborate prototype model with its advantages and disadvantages.
**d)** What are the feasibility studies for requirements engineering process?
**e)** Explain the methods of System Testing.
**f)** What is the goal of requirements analysis phase? Give reasons why the requirements analysis phase is a difficult one.
**g)** Explain about different black box testing.
**h)** How system modeling is achieved using UML? What is the importance of Use-case diagrams in software development
**i)** What is software quality? Explain MC Calls and FURPS quality factors.
**j)** What is Behavior Modeling? Draw a sequence diagram for at least two scenarios for account holder Transaction with Bank. Assume suitable scope and indicate it.
**k)** Discuss the software metrics that can be applied to the qualitative assessment of software quality and the side effects that occur during maintenance phase
**l)** Explain various software quality standards and discuss how to assure them.

## Part-III

**Long Answer Type Questions (Answer Any Two out of Four)**

**Q3** Why spiral model is considered as meta model? With neat sketch explain the model properly. Mention its advantages and dis advantages. **(16)**

**Q4** Explain clearly about software requirements document. **(16)**

**Q5** Differentiate between functional and non-functional requirements with suitable examples. **(16)**

**Q6** Explain about risk projection and risk management. **(16)**