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# **BMS College of Engineering, Bangalore-560019**

(Autonomous Institute, Affiliated to VTU, Belgaum)

## **MAY/JUNE 2015 Semester End Main Examinations**

**Course: Software Engineering**

**Course Code: 10CI6GCSWE**

**Duration: 3 Hours**

**Max Marks:100**

**Date: 14.05.2015**

**Instructions: Answer any five full questions choosing one from each unit.**

### **UNIT-I**

1. a) List ACM/IEEE software engineering code of ethics and professional practice? 08
- b) With a neat diagram illustrate the working of legacy system? 08
- c) List guidelines to be followed while writing user requirements? 04

**OR**

2. a) With a neat diagram illustrate systems engineering process? 08
- b) Eliciting and understanding stakeholder requirements is difficult for several reasons? Justify? 06
- c) List essential characteristics of Socio technical systems and list three attributes of good software? 06

### **UNIT-II**

3. a) Explain the process of Risk Management with help of a neat diagram. 08
- b) Explain the general structure of a Project Plan. 07
- c) Draw and explain the Context Model of a Library system 05

### **UNIT-III**

4. a) Draw an architecture of a film and picture library system 10
- b) Explain two event driven control models with neat diagram. 10

### **UNIT-IV**

5. a) Explain the principle of Agile method. 05
- b) Explain the stages involved in Automated Static Analysis. 07
- c) Explain Clean-Room software development approach. 08

**OR**

6. a) Explain the model of the software testing process with neat diagram. 07
- b) List the difference between Black-Box and White-Box testing. 06
- c) Explain the Rapid Application Development with neat diagram. 07

## UNIT - V

7.
  - a) Explain data models for software requirement process. 10
  - b) Develop a design of a weather station by applying the steps of object-oriented design process. 10

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