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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

MAY/JUNE 2013 Semester End Main Examinations

Course: Software Engineering

Course Code: 10CI6GCSWE

Duration : 3 hours

Max Marks: 100

03.06.2013

Instruction: Answer any five full questions, choosing one full question from each unit.

UNIT - 1

1. a. What is Software? What are the attributes of good software? 05 Marks
- b. What are the key challenges facing software engineering? Explain 05 marks
- c. Explain system components of legacy systems with a neat diagram. 10 Marks

OR

2. a. Explain the various types of non-functional requirements in detail. 10 Marks
- b. With the help of a diagram, explain the spiral model of requirements engineering process. 10 Marks

UNIT - 2

3. a. Explain in detail the activities of Project Management? 08 Marks
- b. With a Neat diagram explain the Risk Management Process and Explain the type of Risk that can arise? 06 marks
- c. With a Neat Diagram Explain the Data-Flow Model for Order Processing? 06 Marks

UNIT - 3

4. a. Explain the working of client server architectural model? 06 Marks
- b. State at least three advantages and three disadvantages of layered model? 06 Marks
- c. Describe the various proposals made to identify objects? 04 Marks
- d. Using suitable examples describe an object and an object class? 04 Marks

UNIT - 4

5. a. Describe the five principles of agile methods. 05 Marks
- b. What is the goal of software testing process? Explain component testing. 10 Marks
- c. Cleanroom approach to software development is based on five key strategies. Explain them. 05 Marks

OR

6. a. Discuss the advantages of pair programming. 05 Marks
- b. Explain the roles in the software inspection process and discuss the possible inspection checks. 10 Marks
- c. Differentiate between black-box and structural testing. 05 Marks

7. Write short notes on
- a. System Engineering Process.
 - b. Risk Management Process.
 - c. Control Styles.
 - d. System Testing.
