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Roll No. ....

**E211**

**B.C.A. EXAMINATION, May 2019**

(Fifth Semester)

(B. Scheme) (Re-appear Only)

(BCA)

BCA301B

PRINCIPLES OF SOFTWARE ENGINEERING

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. Answer to the point. Please ensure that you have been supplied correct and complete question paper, no complaint in this regard will be entertained after the completion of examination.

(3-06/11)M-E211

**P.T.O.**

### **Unit I**

1. Explain Spiral Software Life Cycle Model. Also list its advantages and disadvantages. **15**
2. Explain the COCOMO model in detail. **15**

### **Unit II**

3. Define ER diagram. Explain the building block of ER diagram. **15**
4. What is Cohesion ? Explain different types of cohesion. **15**

### **Unit III**

5. Write notes on the following :
  - (a) Structured Programming
  - (b) Equivalence Class Testing. **15**
6. Write notes on the following :
  - (a) Cause Effect Graphing Testing Technique
  - (b) Data Flow Based Testing. **15**

### **Unit IV**

7. Explain the following types of integration testing techniques :
  - (a) Top-Down
  - (b) Bottom-Up
  - (c) Sandwich. **15**
8. Draw the block diagram for software maintenance process and explain in detail. **15**