

57645

**BBA (CAM) 5th Semester (N.S.) 2014-17  
Examination - November, 2017**

**SOFTWARE ENGINEERING**

**Paper: BCAMN-505**

**Time: Three Hours**

**[Maximum Marks : 50]**

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

**Note:** Attempt all five parts of the question in Section-A. Attempt four questions selecting one question from each Unit in Section-B. All questions carry equal marks.

**SECTION - A**

1. Explain the following
  - (a) Software engineering
  - (b) Cyclomatic Complexity of a program
  - (c) Project management
  - (d) Prototyping
  - (e) Test case

**SECTION - B**

**UNIT - I**

2. What do you mean by software metrics? Classify software metrics in broad categories and outline the difference between these.
3. What is Halstead's software science model? [Discussion / Detail]

**UNIT - II**

4. (a) What is software quality? List and explain in brief any five important attributes of software quality.  
(b) Write in brief about the COCOMO model for software cost estimation.

5. Write short notes on the following
- Project scheduling
  - Project monitoring plans

### UNIT - III

6. What is a modular design? Why a system design with high cohesion and low coupling is desired? Also discuss in brief various types of cohesions.
7. Write short notes on the following
- System design tools
  - Structured programming

### UNIT - IV

8. (a) What do you mean by coding? What are code inspections? Discuss their purpose and benefits.
- (b) The first step in testing is to layout a test plan. Give the outline of test plan activities during testing.
9. Distinguish between structural and functional testing. Discuss advantages and drawbacks of each. Also explain any one method of performing structural testing.