KB-653   Seat No. 849

B. C. A. (Sem. V) Examination
October / November - 2017
BCA-503 : Software Engineering

Time : 3 Hours] [Total Marks : 70

1 (a) Do as directed : **6**
  (1) Define : Software Engineering
  (2) List out Software Quality Attributes.
  (3) What is Increment model ?
  (4) What is Software Costs ?
  (5) Define : Software Process.
  (6) Define : Software Development Approach.

  (b) Attempt following : (any two) **12**
  (1) Explain Characteristics of Software.
  (2) Explain Spiral Model in detail
  (3) Explain Principle of Software Engineering.

2 (a) Do as directed : **5**
  (1) What is SRS ?
  (2) Define : System Design.
  (3) What is Object Oriented Approaches ?
  (4) Define : Role of Metrics.
  (5) List out Software Engineering benefits.

  (b) Attempt following : (any two) **12**
  (1) Explain types of Requirement in detail.
  (2) Explain Software Design Strategy in detail.
  (3) Explain Role of Management in software development.

3 (a) Do as directed :   **6**

      (1) What is information hiding ?

      (2) Define : Regression testing.

      (3) What is Beta testing ?

      (4) What is fault ?

      (5) Define : Boundary Value Analysis.

      (6) What is Testing ?

  (b) Attempt following : (any **two**)   **12**

      (1) Explain Top Down and Bottom Up approaches in testing.

      (2) Explain Structure Testing in detail.

      (3) Explain programming style in coding detail.

4 (a) Do as directed :   **5**

      (1) What is Project Planning ?

      (2) Define : Verification and Validation.

      (3) Full form of : CASE and ISO.

      (4) Define : Risk

      (5) What is Software Maintenance ?

  (b) Attempt following : (any two)   **12**

      (1) Explain COCOMO model in detail.

      (2) Explain objectives of Software Quality Management

      (3) Explain Software Maintenance in detail.