**B.C.A. (Part–III) Semester–V Examination**

**SOFTWARE ENGINEERING**

**Paper–5 ST3**

Time : Three Hours]                                                                 [Maximum Marks : 60

Note :—  (i)   Assume suitable data wherever necessary.

   (ii)   Illustrate your answer wherever necessary with the help of neat sketches.

   (iii)   Draw well labelled diagram wherever necessary.

   (iv)   All questions are compulsory.

1.   (A)   What is Software ? Explain the characteristics of it.                                6

     (B)   Define Requirement Engineering. Explain Requirement Engineering process.        6

**OR**

2.   (A)   Explain in detail Software Requirement Analysis and its specifications.          6

     (B)   Explain the Software Cycle models in detail.                                         6

3.   (A)   Explain various issues in software cost estimation.                               6

     (B)   Explain in detail COCOMA model.                                                    6

**OR**

4.   (A)   Write down the steps included in project plan.                                    6

     (B)   What is Risk ? How can it be measured ? Explain.                                   6

5.   (A)   Explain the constraints in software design.                                       6

     (B)   Explain Bottom-Up strategies.                                                     6

**OR**

6.   (A)   Explain Top-Down Approach in software design.                                     6

     (B)   Why decision tree is necessary ? Explain.                                         6

7.   (A)   Explain the term Software Reuse and System Documentation.                         6

     (B)   What do you mean by mix language programming ? Explain.                           6

**OR**

8.   (A)   What is software project management ? Explain                                     6

     (B)   Explain in detail resource management.                                           6

9.  (A)  Explain the following terms :

    (i)   Quality Control (QC)

    (ii)  Quality Assurance (QA)                                               6

    (B)  Explain tools and techniques of software quality management.          6

                                    **OR**

10. (A)  Explain ISO in software quality concept.                             6

    (B)  Give the steps of SQA plan.                                          6