Exam. Code: 107206
Subject Code: 1645

Bachelor of Computer Application (BCA) 6th Semester
SOFTWARE ENGINEERING
Paper-II

Time Allowed—3 Hours]   [Maximum Marks—75

Note :– Attempt **FIVE** questions in all, selecting at least **ONE** question from each Section. The fifth question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. (a) What are the desirable characteristics of the software process ?   5

    (b) How modified waterfall model covers the limitations of original waterfall model ?   10

2. (a) Define the term Metrics. How size-oriented function point metrics help in measuring the size of software ?   10

    (b) Explain different Metrics used for measuring software quality.   5

SECTION—B

3. (a) What is the basic objective of problem analysis ? Discuss various techniques used for problem analysis.   10

    (b) Discuss the basic components of software requirement.   5

4. Discuss various activities to be taken care while planning a software project. Explain the concept of Rayleigh Curve and Quality Assurance plan in detail.   15

SECTION—C

5. Discuss common coding errors using suitable examples. Suggest few techniques which can be used to improve code quality.   15

6. What do you understand by Test Criteria ? Explain the concept of Functional Testing and Structural Testing in detail.   15

SECTION—D

7. What is software maintenance ? Discuss its various types. Illustrate the concept of corrective and preventive maintenance using suitable example.   15

8. Explain the role of Reverse Engineering in Software Maintenance in detail.   15