

## **SECTION-A**

1. (a) Define the term Software Crisis. What is the situation of software development now-a-days ? 5
- (b) Explain in detail Iterative waterfall model of software development. 10
2. Differentiate between Metric and Measurement. How Size-Oriented Functions Point metrics help in calculating the size of software ? Explain with suitable example. 15

## **SECTION-B**

3. What should be the characteristics of software requirement ? Explain different components of SRS Document using suitable example. 15
4. What do you understand by System Design ? Explain various design principles used for system design with the help of suitable examples. 15

## SECTION-C

5. (a) What are different coding styles used in system design ? Explain with suitable examples. 10

(b) Illustrate the significance of Internal Documentation in coding. 5

6. (a) Explain the concept of Test Case and Test Criteria using suitable example. 5

(b) Explain the concept of White-Box Testing in detail. How it is different from Black-Box Testing ? 10

## SECTION-D

7. Define the term system maintenance. What are its various types ? Illustrate the concept of corrective and preventive maintenance using suitable example. 15

8. How Reverse Engineering is related with Software Maintenance ? Explain. 15