Exam. Code : 110005

Subject Code : 3694

Bachelor of Vocation Web Tech. & Multimedia
5th Semester

SOFTWARE TESTING AND QUALITY ASSURANCE

Paper—504

Time Allowed—3 Hours]   [Maximum Marks—50

Note :— Attempt any **five** questions. All questions carry equal marks. Students can use only non-programmable and non-storage type calculator.

1. What do you understand by the term Software Development Life Cycle (SDLC) ? Why it is important to adhere to life cycle model while developing a large software project ? Discuss the waterfall model in detail giving its merits and demerits.   10

2. What do you mean by software quality ? What is the importance of software quality ? List various quality standards. Discuss ISO 9126 in detail.   10

3. Define software metrics. Why do we really need metrics in software ? What are various software quality assurance metrics ? Discuss in detail.   10

4. Differentiate between software verification and validation. List various methods of verification and validation. Explain any one method of each in detail.   10

5. What is the difference between black box testing and white box testing ? Discuss two methods of black box testing in detail. 10

6. What do you mean by debugging ? What is debugging process ? What are various debugging strategies ? Discuss in detail. 10

7. What do you mean by object oriented testing ? Discuss fault based testing and scenario based testing in detail. 10

8. Write short notes on the following :

    (a) Testing of the shelf software 5

    (b) Testing security. 5