

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

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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

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