

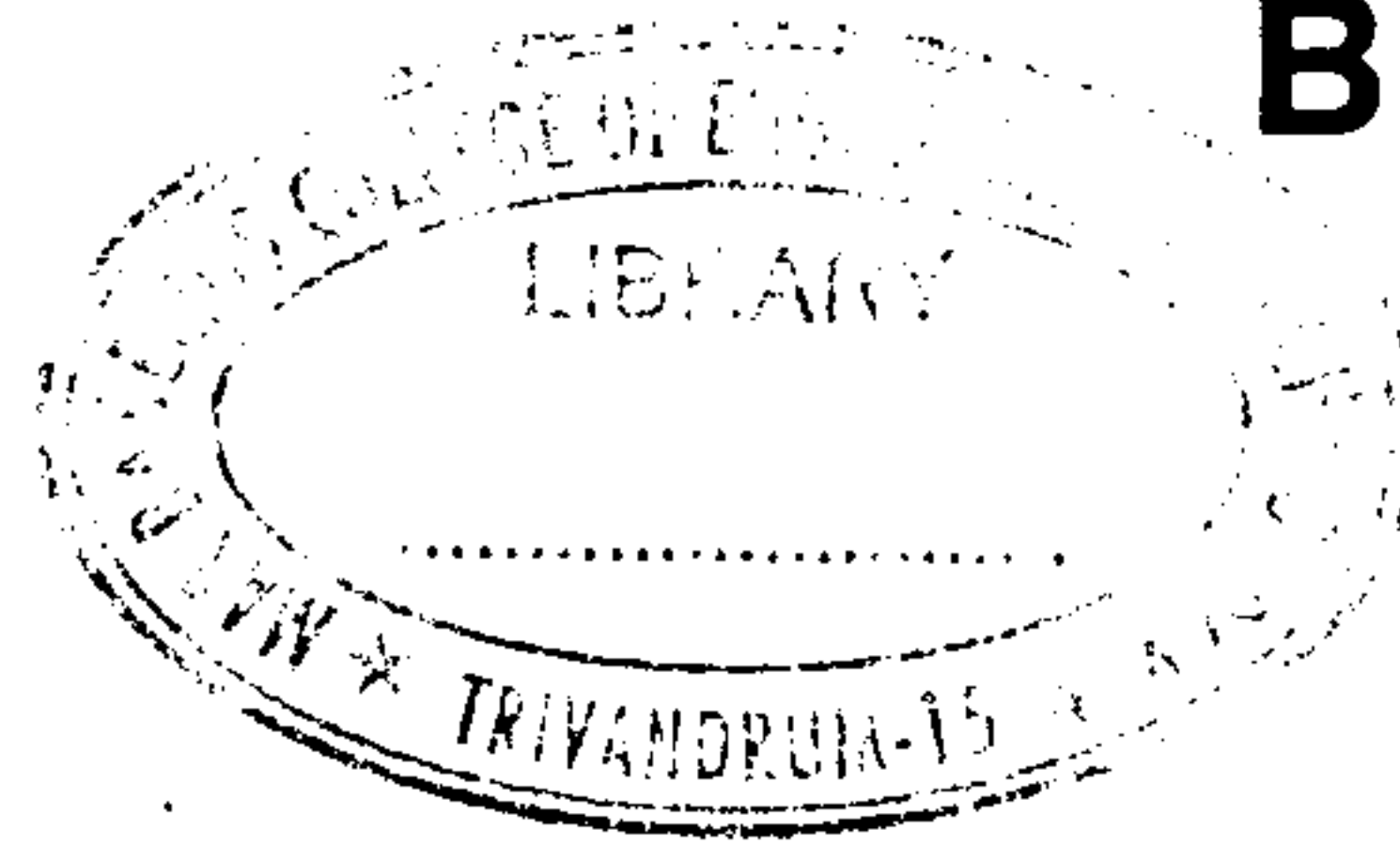


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**B – 2684**

Reg. No. : .....

Name : .....



**Eighth Semester B.Tech. Degree Examination, December 2016**

**08.804 : SOFTWARE TESTING (F)**

**(2008 Scheme)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions. **Each** question carries **4** marks.

1. Why is it impossible for a tester to find all the bugs in a system ? Why might it not be necessary for a program to be completely free of defects before it is delivered to its customers ?
2. Distinguish debugging and testing, verification and validation.
3. Are both functional and structural testing necessary ? Justify with an illustration.
4. Write the two basic testing strategies used to design test cases. State the guidelines for designing the test case.
5. What are the factors affecting less than 100% degree of coverage ? State the tools used to build test data.
6. A Web App and its support environment have not been fully fortified against attack. Web engineers estimate that the likelihood of repelling an attack is only 25%. The system does not contain sensitive or controversial information, so that threat probability is 20%. What is the integrity of the Web App ? What kinds of testing is necessary for web applications ?

P.T.O.



7. What are common programming phase deliverables that are input for testing ?  
Determine the result of test case execution when the software testing process is automated.
8. What is test team efficiency and test case efficiency ?
9. State the guidelines for writing and using test report.
10. Briefly state the need for test metrics and discuss on two test metrics.

### PART – B

Answer **one full** question from **each** Module. **Each** question carries **20** marks.

#### Module – I

11. a) Enumerate the steps in software Development models. Explain with suitable example, the types of software development for which the spiral model is suitable. Is the number of loops of the spiral fixed for different development projects ? If not, explain how the number of loops in the spiral is determined. 12
- b) Discuss in detail about the steps followed in software testing process. 8

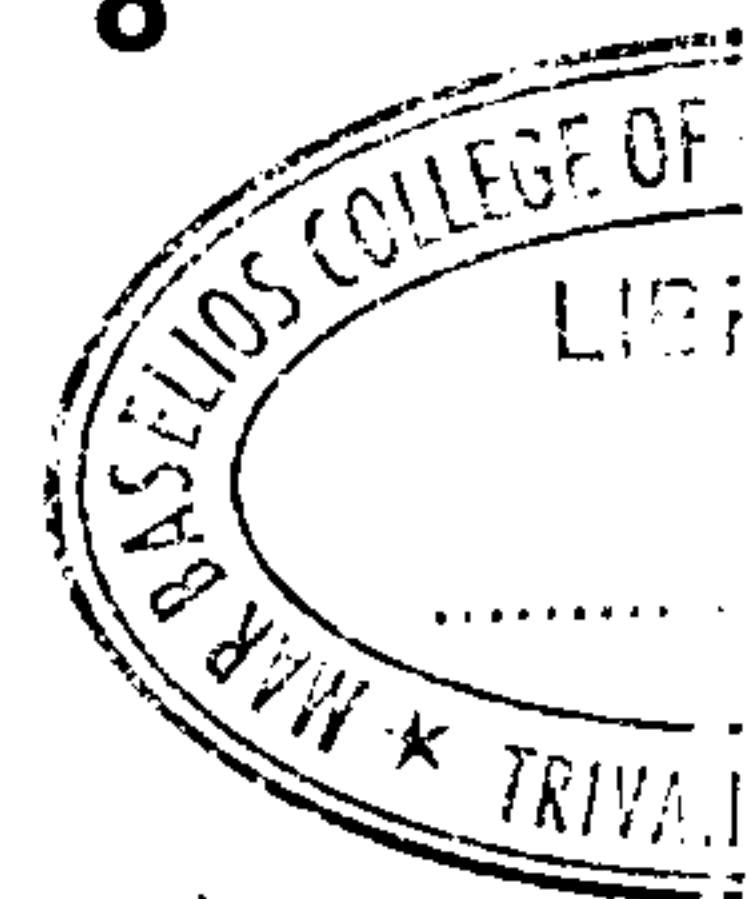
OR

12. Explain the four steps essential in developing a customized test strategy. A testing strategy is chosen by most software teams to test the software. Explain the various types of testing strategies and what criteria should be used to design integration testing and acceptance testing. 20

#### Module – II

13. a) Design at least six test cases for acceptance test for an online banking website. 14
- b) XYZ company is developing a billing software for a book shop. Build a test plan. Explain how the test plans are executed. 6

OR





14. a) What is a test script ? How does it differ from a test case ? Explain the different techniques that are used to frame a test script. **15**
- b) What are the characteristics of a good test case ? Illustrate about the tools that support for life cycle testing. **5**

**Module – III**

15. Explain the assessment tasks in evaluating the effectiveness of testing. Discuss in detail the seven tasks in the assessment process. **20**

OR

16. a) State and explain the actions in requirement tracing and ensuring requirements are testable. Explain the requirement phase risk matrix for a billing system in detail. **12**
- b) Explain the major factors of project status report and test status report. **8**
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