

Total No. of Printed Pages:02

SUBJECT CODE NO:- H-268
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E. (CSE/IT)
Software Testing and Quality Assurance
(REVISED)

[Time: Three Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

- N.B
- i) Q.No.1 from section A and Q.No.6 from section B are compulsory.
 - ii) Attempt any two questions from the remaining questions in each section .

Section A

- | | | |
|-----|---|----|
| Q.1 | Answer the following (Any five) | 10 |
| | <ol style="list-style-type: none"> 1) Define quality concept. 2) When should testing be stopped? 3) What is performance testing? 4) What is statement coverage? 5) What are the objectives of testing? 6) What is security testing? 7) Define white box testing and list it's methods. 8) What is software reliability? | |
| Q.2 | a) Explain any two software development models. | 07 |
| | b) Explain integration testing in detail. | 08 |
| Q.3 | a) Differentiate between verification and validation. | 08 |
| | b) What is black box testing? Explain any one black box testing method. | 07 |
| Q.4 | a) Explain in detail software testing life cycle. | 07 |
| | b) Explain usability testing in detail. | 08 |
| Q.5 | Write a short note on (any three) | 15 |
| | <ol style="list-style-type: none"> 1) SQA plan 2) Inspection 3) User interface testing 4) Unit testing. | |

Section B

- Q.6 Answer the following (any five) 10
- 1) What are the disadvantages of manual testing?
 - 2) What are the benefits of test documentation
 - 3) What is impact of defect in deployment phase?
 - 4) What are the features of testing tools?
 - 5) List test plan benefits
 - 6) How to build test data?
 - 7) What is open source tool ? give example
 - 8) What are the classification of defects?
- Q.7 a) What are guidelines for selecting tools? 07
- b) Explain risk analysis 08
- Q.8 a) Explain test management in detail 07
- b) Explain defect life cycle 08
- Q.9 a) What is test plan? Explain various elements included in test plan according to IEEE standards. 07
- b) Explain defect fault and failure of a project with an example. 08
- Q.10 Write short notes on (any three) 15
- 1) Fagan inspection
 - 2) Static VS dynamic testing tool
 - 3) Qualitative analysis
 - 4) Strategic management