

POKHARA UNIVERSITY

Level: Bachelor

Semester: Spring

Year : 2017

Programme: BE

Full Marks: 100

Course: Software Testing, Verification, Validation
and QA

Pass Marks: 45

Time : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What is a software failure? Explain. Does presence of bug indicate a failure? Discuss. 7
- b) How do you achieve software quality by means of testing? Also show the relationship between testing and quality. 8
2. a) List out the Seven Testing principles of software testing and elaborate them. 7
- b) Describe fundamental test processes in brief. 8
3. a) Why is V-model important from testing and SQA viewpoint? Discuss. 7
- b) How is Integration testing different from Component testing? Clarify. 8
4. a) Describe the process of Technical Review as a part of the Static testing technique. 7
- b) How is Equivalent partitioning carried out? Illustrate with a suitable example. 8
5. a) If you are a QA manager, how would you make a software testing independent in your organization? 7
- b) How do the tasks of a software Test Leader differ from a Tester? 8
6. a) Prove that the psychology of a software tester conflicts with a developer. 7
- b) Describe in short tools support for test execution and logging. 8
7. Write short notes on: (**Any two**) 2×5
 - a) Project risk vs. Product risk
 - b) Black box testing
 - c) SRS document