

# POKHARA UNIVERSITY

Level: Bachelor Semester: Fall Year : 2020  
Programme: BE Full Marks: 100  
Course: Software Testing Verification Validation Pass Marks: 45  
and QA 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) Why do you consider testing as a process and what are the objectives of testing? 8  
b) Explain in what kinds of projects, exhaustive testing is possible. Describe about Pareto principle and Pesticide paradox. 7
2. a) Both black box testing and white box testing can be used in all levels of testing. Explain with examples. 7  
b) If you are a Project Manager of a company, then how and which techniques would you perform validation to meet the project quality? Describe in details. 8
3. a) List out various categories of Non-functional testing with brief overview. How does such testing assist in Software Testing Life Cycle? 8  
b) What are the main roles in the review process? 7
4. a) Experienced based testing technique is used to complement black box and white box testing technique. Explain. 8  
b) Suppose you have a login form with inputs email and password fields. Draw a decision table for possible test conditions and outcomes using decision table testing. 7
5. a) Explain Test Strategy with its importance. How do you know which strategies (among preventive and reactive) to pick for the best chance of success? 8  
b) With appropriate example, describe the process of test monitoring and test controlling. How does test control affect testing? 7

6. a) What are the internal and external factors that influence the decisions about which technique to use? Clarify. 3×5  
b) Why do you think ethics is needed while testing software? Justify with any example.  
c) Explain different types of challenges while testing Mobile applications.
7. Write short notes on: (**Any two**) 2×5  
a) Types of test levels  
b) 6 Sigma  
c) Exit Criteria