

POKHARA UNIVERSITY

Level: Bachelor	Semester: Fall	Year : 2018
Programme: BE		Full Marks: 100
Course: Software Testing, Verification, Validation and Quality Assurance		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) Why is Quality Assurance necessary in different types of organizations? Justify with some examples. 8
b) Write in details about the 7 major Testing principles. 7
2. a) What is Audit? Write about its various types. 7
b) Differentiate between Verification and Validation. 8
3. a) Write about Unit testing. How does Unit test help in testing life cycle? 7
b) Why is static testing different than dynamic testing? Validate it. 8
4. a) Explain Equivalence partitioning, Boundary Value Analysis and Decision table testing. 7
b) How do you choose which testing technique is best? Justify your answer technically. 8
5. a) Why is test progress monitoring important? How is it controlled? 7
b) Describe Risk Management. How do you avoid project from being a total failure? 8
6. a) For any product testing, how does a company choose an effective tool? What are the affecting factors for this decision? 7
b) Write about the testing techniques used for web application testing. 8
7. Write short notes on: (**Any two**) 2×5
 - a) Incident management
 - b) CMMI and Six Sigma
 - c) Entry Criteria