

(3 hours)

Maximum Marks = 80

NB:

Question No. 1 is compulsory and solve any THREE questions from remaining questions

Assume suitable data if necessary

Draw clean and neat diagrams

Q1.	Attempt all	Marks
a.	What is Six Sigma?	5
b.	Define each software testing terminology: i) Failure, ii) Defect, iii) Error, iv) Testware v) Test oracle.	5
c.	Draw an architecture of Software Testing life cycle.	5
d.	Explain mutation testing with an example.	5
Q2.	a. A program takes an angle as input within the range [0,360] and determines in which quadrant the angle lies. Design test cases using equivalence class partitioning method.	10
b.	Compare black box and white box testing.	10
Q3.	a. Explain Regression Testing with example.	10
b.	What are software metrics? Explain in detail.	10
Q4.	a. Discuss the challenges in performing (i) Agile Testing (ii) Object-oriented testing.	10
b.	What is automated testing? Why is it required?	10
Q5.	a. Elaborate V&V Model in detail.	10
b.	Explain Test case specification with its component and write test specification with any real time example.	10
Q6.	a. Explain ISO 9000:2000.	10
b.	Explain goals of software testing.	10