(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	Mark
	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.	55
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
	<i>.</i>		
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
			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
Q6	b.	Explain goals of software testing.	10

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Page 1 of 1