- (i) Printed Pages: 3] Roll No.
- (ii) Questions : 9] Sub. Code : 3 6 0 7 Exam. Code : 0 4 5 9

M. Sc. Information Technology 1st Semester Examination

1127

SOFTWARE ENGINEERING Paper: MS-61

Time: 3 Hours] [Max. Marks: 80

Note :- Attempt five questions in all. Question No. 1 is compulsory and attempt one question from each Unit.

- 1. Attempt the following:
 - (i) What do you mean by data Flow Diagram?
 - (ii) Explain system analysis.
 - (iii) Define user interface
 - (iv) Explain feasibility

NA-355

(1)

Turn Over

	(v) Describe software risk
	(vi) Explain decomposition technique
	(vii) List the objective of software testing
	(viii) Define white box testing. 8×2=16
	Unit-I
2.	What do you mean by software process modeling ?
	Explain the following models in detail with the help
	of example:
	(i) Waterfall model
	(ii) Spiral model
	(iii) A file modeling
3.	Describe software requirement specification. Explain
	the requirements, components and designing used in
	it. 10
	Unit-II
4.	Explain the principles and objective of software
	design. Elaborate the designing methodologies in
	detail.
N	A-355 (2)

5.	Write short notes on the following:	
	(a) Cocomo model	
	(b) Critical path method	
	(c) GANTT Chart	
	d) PERT Chart 4x4	1
	Unit-III	
6.	Describe the role metrics and measurement in	
	oftware engineering. Explain the classification of	
	oftware matrics with the help of their features.	5
7.	Explain the types of measurement. Describe the	
	actors affecting software reliability in detail.	5
	Unit-IV	
8.	Explain the software testing strategies with their	
	haracteristics and usage.	5
9.	Differentiate between:	
	a) Logic based testing and basic path testing	
	b) Domain and boundary testing	
	c) White box testing and black box testing	
	techniques 16	5
N	-355 (3)	