(i) Printed Pages : 2

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(ii) Questions :9

 Sub. Code :
 3
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 Exam. Code :
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M.Sc. Information Technology 1st Semester 1128

SOFTWARE ENGINEERING Paper—MS-61

Time Allowed : Three Hours]

[Maximum Marks : 80

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Note :—Attempt *five* questions in all, selecting one question each from Units-I, II, III and IV. Unit-V is compulsory.

UNIT-I

- 1. (a) What are the characteristics of a well-engineered software? 8
 - (b) When is the Spiral model an appropriate software life cycle model to use ? What aspects does a Spiral model address ? 8
- 2. (a) What is an SRS ? Give an example SRS and explain the components. 8
 - (b) What is a DFD ? Design DFD(s) for a Hotel management system. Take suitable assumptions.

UNIT-II

- (a) What is Modular design ? Explain important concepts of modular design.
 8
 - (b) Give the elements and important characteristics of User interface design. 8

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- 4. (a) How to plan and schedule a project using PERT chart? Give example. 8
 - (b) What is Software risk ? How to assess software risk ? 8 UNIT—III
- 5. (a) What is the use of software metrics ? Differentiate between project, product, process and people metrics. 8
 - (b) Discuss various software size metrics with the help of suitable examples. 8
- 6. (a) What is Software maintenance ? Why is it important ? What are different types of software maintenances. 8
 - (b) Differentiate between Software reliability and Hardware reliability. Discuss different Software Reliability metrics. 8

UNIT-IV

7.	(a)	Discuss the process of Software testing. What are the objection of software testing?	ves 10
	(b)	Discuss Boundary value analysis with the help of example	(s). 6
8.	(a)	Discuss integration and functional testing with the help suitable example(s).	o of 10
	(b)	Explain difference between Alpha and Beta testing.	6
		UNIT—V	
9.	(a)	What do you understand by Agile modeling?	2
	(b)	What is E-R diagram ? Give example.	2
	(c)	How structure-chart is different from flow-chart?	2
	(d)	Give two important characteristics of Black box testing.	2
	(e)	Give two factors which affect the reliability of a Software.	2
	(f)	Give two characteristics of Prototyping model.	2
	(g)	Give an example Cause-effect graph.	2
	(h)	What do you understand by equivalence classes ?	2

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