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Fifth Semester B.E. Degree Examination, June/July 2019 Software Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

1	a.	What are the attributes of a good software? Expl	lain. Also list and explain the key	challenges
		facing software engineering.		(07 Marks)
	1	Explain type types of amongont properties. Cive	avamalas for managent proportios	(0(M l)

Explain two types of emergent properties. Give examples for emergent properties. (06 Marks)

Explain legacy system components with a neat diagram. (07 Marks)

2 a. What are critical systems? Explain different types of critical systems. Give examples to each. (06 Marks)

b. With a neat diagram, describe the water fall model of software development process.

c. Explain the various phases of rational unified process. (10 Marks)

3 a. What are functional and non-functional requirements? Discuss the functional requirements

in detail (08 Marks)

b. What are the requirements validation techniques? Explain briefly. (06 Marks)

c. Explain the structure of the requirements document.

(06 Marks)

(10 Marks)

4 a. Write short notes on: (i) Context model (ii) Object model. (10 Marks)
b. Explain the risk management process with a neat sketches. Explain any one of its stage in

detail.

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5 a. With an example describe the repository model and give its advantages and disadvantages.
(10 Marks)

b. Explain two generic control styles with examples. (06 Marks)

c. Mention and define two types of design models of object oriented design. (04 Marks)

6 a. What is extreme programming (XP)? Explain a number of practices involving in extreme programming (XP). (08 Marks)

b. Discuss the principles of agile methods. (05 Marks)

Explain re-engineering process with a neat diagram. (07 Marks)

7 a. Explain the activities in the inspection process with a neat diagram. (06 Marks)

b. Write a short notes on:

(i) Integration testing.

(ii) Release testing

(iii) Performance testing. (09 Marks)

c. What is path testing? Draw a flow graph for a binary search routine. (05 Marks)

8 a. Explain factors governing staff selection. (10 Marks)

b. Discuss in detail algorithmic cost models in project planning. (10 Marks)

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