2019

BCA

4th Semester Examination Software Engineering

Paper - 2204

Full Marks - 70

Time: 3 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer question No. 1 any five from the rest.

- (a) What is prototype? What is the advantage of coustructing a working prototype first before developing actual model?
 - (b) Explain the major phases in the spiral model.
 - (c) Compare logical and physical DFD with example.

P.T.O.

2.	(a)	Explain organic, semi-detached and embedded type projects. 4
	(b)	Write down the expressions to find out
		development effort and time in case of
		organic, semi-detached and embedded type
		projects according to COCOMO. 3
	(c)	Describe the various types of cohesion that
		a module might exhibit. 4
	(d)	What do you mean by regression testing? 3
3.	(a)	Differentiate between verification and
		validation. 5
	(b)	What do you mean by software reliability? 4
	(c)	What are the metrics of reliability? 5
4.	(a)	What is ER-diagram? Give its notation. 5
	(b)	What do you mean by Structured Analysis?
		3
	(c)	Explain various tools of structured analysis in
		detail. 6
5.	(a)	What do you mean by software
		configuration management? 4
	(b)	What are the activities that a project
	,	manager perform during project planning? 3
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(c)	What is decision table? Explain with an example.
(d)	What is SRS? Write down the characteristics of SRS.
6. (a)	What is alpha testing?
(b)	What are the characteristics of a good test plan?
(c)	What are the different objectives kept in mind while black box and white box testing?
7. (a)	What do you mean by risk in software development? Mention some common risks associated with software development. 5
(b)	Explain ISO 9000 certification. 3
(c)	What is the difference between unit testing and system testing?
(d)	State the importance of Rayleigh curve on staffing estimation.
	[Internal Assessment – 30 marks]
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