3 SEM BCA (CBCS) 3

2018

(December)

COMPUTER APPLICATION

Paper: 3.3

(Software Engineering)

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

- 1. (a) What is software engineering? Name two types of software development projects. 2+1=3
 - (b) How does abstraction differ from decomposition? Briefly explain with example.

OR

(c) How does control flow design differ from data flow based design? Explain with suitable example.

Contd.

	(d) Mention three drawbacks of using GOTO statement in programs.	3 (e) Why is it difficult to accurately estimate effort required in completing
	2. (a) Explain classical waterfall model.	a project? Briefly explain different effort estimation methods that are
	OR	4. (a) What is a SRS document? 2
	(b) Explain V-model. 8 (c) How does prototype model differ from spiral model?	8 (b) Who carries out requirement analysis and specification? 2
444	3. (a) Briefly explain how project planning is done.	
154	# (b) What is LOC? How is it used in estimating a project? 1+2=3	(d) What are the characterisitics of a good SRS document? 2
The same	(c) Write two major responsibilities of a software project manager.	a (e) Name three categories of customer requirements. 2
	(d) Briefly explain the main differences	10
	between the original COCOMO	OD
	estimation model and COCOMO 2 estimation model.	(b) Draw the DrD of a pharmacy retailer
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6. (a)	What is UML?	
(b)	Briefly explain any two of the following views: 2×2=4 (i) User's view (ii) Structural view (iii) Implementation view	
	(iv) Environmental view	
(c)	(c) Define any one of the following:	
	(i) Black-box test	
	(ii) White box test	
	(iii) Integration test	
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