## Second Year B.C.A (Semester - I) Examination Paper - 15BCA204

## **Software Engineering & Testing**

Time: Three hours]

[Full Marks - 60

- **N.B.:** i) All questions carry equal marks
  - ii) Due credit will be given to neatness & adequate dimensions.
  - iii) Assume suitable data wherever necessary.
  - iv) Illustrate your answer necessary with the help of neat skectches.
  - v) Use Blue/Black ink/refill only for writing the answer book.
- Q.1 Choose correct alternatives.

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- a) SDLC stands for
  - i) Software Development Life Cycle
  - ii) System Development Life Cycle
  - iii) Software Design Life Cycle
  - iv) System Design Life Cycle
- b) CoCoMo stands for \_\_\_\_\_
  - i) Consumed Cost Model
  - ii) Constructive Cost Model
  - iii) Common Control Model
  - iv) Composition Cost Model
- c) Which tool is use for structured designing.
  - i) Program flowchart
- ii) Structure chart
- iii) Data-flow diagram
- iv) Module
- d) What are the various Testing Levels?
  - i) Unit Testing
- ii) System Testing
- iii) Integration Testing
- iv) All of the mentioned

	e)			OR				
		<ul><li>i) Error corrections</li><li>ii) Enhancements of capabilities</li></ul>		Q.7	a)	Explain the following soft practices.	ware programming	6
		<ul><li>ii) Deletion of obsolete capabilities</li><li>iv) All of the above mentioned</li></ul>			b)	i) top-down Explain:-	ii) bottom - up	5
Q.2	a)	Explain the following myths of software.	6			i) Data Design	ii) Architectural Desig	gn
	b)	<ul> <li>i) User Myths</li> <li>ii) Developers myt</li> <li>iii) Management myths</li> <li>Explain the Waterfall model of software development life cycle in details.</li> </ul>		Q.8	a) b)	disadvantages.	sting with its advantages an	nd 6 5
		OR				i) test cuses	n) test erneriu	
Q.3	a)	Explain the spiral model of software development life	2			OR		
		cycle in details.  Explain the software development life cycle in detail	5	Q.9	a)	Explain:- i) Unit testing	ii) Integration testing	6
Q.4	a)	<ul><li>Explain the following types of software requirement</li><li>i) Functional requirement</li><li>ii) Non Functional requirement</li></ul>	. 5		b)	iii) System testing Explain the white box tes and disadvantages.	ting with its advantages	5
	b)	Explain the object oriented modeling in software requirements.	6	Q.10	0 a)	Explain and compare the in details.	process and product quali	ity
		OR			b)	Explain Software maintain	ins life cycle in details.	5
Q.5		Explain the various product cost factors in detail.  Explain the CoCoMo model for software cost	5			OR		
	ĺ	estimation in details.	6	Q.11		Explain types of software	maintains in details.	6
Q.6	a)	Explain the following software design notations.  i) Flowchart	6		b)	Explain:- i) Software planning	ii) Software control	5
		<ul><li>ii) Data Flow Diagrams</li><li>iii) Structured chart</li></ul>						
	b)	Explain the software coding features in detail.	5			****	**	