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Roll No:									

## BTECH (SEM VI) THEORY EXAMINATION 2021-22 SOFTWARE ENGINEERING

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

### **SECTION A**

1.	Attempt all questions in brief.	2*10 = 20

Q.No.	Questions	CO
(a)	Enlist characteristics of software.	1
(b)	Define SDLC.	1
(c)	Define software crisis.	2
(d)	Compare ISO 9000 and SEI-CMM.	2
(e)	Examine methods of finding cyclomatic complexity with example.	3
(f)	Explain Function oriented Design.	3
(g)	List the points of differences between Verification and Validation.	4
(h)	What are stub and driver?	4
(i)	Differentiate between adaptive and corrective maintenance?	5
(j)	List the points of differences between software Re-engineering and	5
	Reverse engineering.	

### **SECTION B**

## 2. Attempt any *three* of the following:

10*3	=30
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Q.No.	Questions	CO
(a)	Explain prototyping model of SDLC. What are its advantages over	1
	conventional model? Explain with diagram.	
(b)	Create a level-2 DFD of the Smart College Campus.	2
(c)	Differentiate between the features of Top-down and Bottom-up approaches of software design along with its advantages and disadvantages.	3
(d)	What is regression testing? Discuss the process of test case prioritization in regression testing?	4
(e)	Why is Software maintenance required? Explain types of maintenances with examples.	5

#### SECTION ©

# 3. Attempt any *one* part of the following:

10\*1 = 10

Q.No.				Question	S		CO
(a)	Discuss	Spiral	Model	for Software	development	life cycle and	1
	highlight	the Ris	k analys	sis in this contex	ĸt.		
(b)	What is t	he need	d of SD	LC? Discuss ev	olutionary dev	elopment model	1
	in detail v	vith the	help of	f diagram.	-	_	

# 4. Attempt any *one* part of the following:

10 \*1 = 10

Q.No.	Questions	CO
(a)	Discuss about decision tables and its components. Create a decision	2
	table. for the following scenario; a bookstore gets a trade discount of	
	25% for order more than 6 books; for order from libraries and	
	individuals, 5% allowed on orders of 6-19 copies per book title; 10%	
	on orders for 20-49 copies per book title; 15% on orders for 50 copies	
	or more per book title.	

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(b)	Discuss the importance of software specification Document. And also	2
	explain the typical IEEE format of SRS document.	

5. Attempt any *one* part of the following:

10\*1 = 10

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Q.No.	Questions	CO
(a)	With the help of example illustratethe concept of modularity and	3
	discuss why is "Low coupling -High cohesion is better for good	
	software" along with the concept of functional independence.	
(b)	What are the various software design strategies? Analyze the points of	3
	difference between Function Oriented Design and Object-Oriented	
	Design.	

6. Attempt any *one* part of the following:

10\*1 = 10

Q.No.	Questions	CO
(a)	Explain Halstead software metrics in detail and mention what do you	4
	understand by token count?	
(b)	Discuss the differences between black box and white box testing and	4
	explain how these techniques can be used simultaneously to test a	
	system.	

7. Attempt any *one* part of the following:

10\*1 = 10

Q.No.	Questions	CO
(a)	Explain Risk management in detail. Also discuss the points that differentiate project risk from technical risk.	5
(b)	What is cost analysis in context of software? Explain COCOMO model with the help of schematic diagram.	5
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	13.06.2022	