



## **BRAINWARE UNIVERSITY**

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Barasat, Kolkata .70

Term End Examination 2022
Programme – B.Tech.(CSE)-2019/B.Tech.(CSE)-2020
Course Name – Software Engineering
Course Code - PEC-501B
( Semester V )

	Time: 2:30 Hours ndidates are required to give their answers in their ar as practicable.]
	oup-A e Type Question) 1 x 15=15 ving:
(i) Decision trees uses Examine and choos	e the correct alternative
<ul> <li>a) pictorial depiction of alternate conditions</li> <li>c) consequences of various depicted alternates</li> </ul>	b) nodes and branches d) all of these
(ii) Which of the following is the best type of mo	dule coupling? Choose the correct option
<ul> <li>a) Control Coupling</li> <li>c) Data Coupling</li> <li>(iii) In a Data Flow Diagram which among the foll</li> <li>? Infer and choose the correct alternative</li> </ul>	<ul><li>b) Stamp Coupling</li><li>d) Content Coupling</li><li>owing process is at the most detailed level</li></ul>
<ul><li>a) Data Flows</li><li>c) Functional Primitive</li><li>(iv) Define which one is the disadvantage of the S</li></ul>	b) Interface d) Transform Description Spiral Model
<ul> <li>a) Doesn't work well for smaller projects</li> <li>c) Additional Functionality can be added later</li> <li>(v) Which of the following gives a logical structu the correct alternative</li> </ul>	d) Strong approval and documentation control
<ul> <li>a) Entity-relationship diagram</li> <li>c) Database diagram</li> <li>(vi) Which of the following is not a Software Con- Anticipate and infer the correct option</li> </ul>	b) Entity diagram d) Architectural representation figuration Management Activity?
<ul> <li>a) Configuration item identification</li> <li>c) Release management</li> <li>(vii) An entity set that does not have sufficient at</li> <li> Infer and select the correct alternation</li> </ul>	b) Risk management d) Branch management tributes to form a primary key is termed a rnative
<ul><li>a) Strong entity set</li><li>c) Weak entity set</li><li>(viii) In a software project, COCOMO is used to est</li></ul>	b) Variant set d) Variable set imate. Select the correct alternative
a) Effort and duration on the size of the	b) Size and duration based on the effort of the

	software	Soliware	cost
	c) Effort and cost based on the duration	n of the d) Size, effort and duration based on the of the software	COST
(ix)	A description of each function presente the correct alternative	ed in the DFD is contained in a Identify	
81,	a) data flow	b) process specification	
TRIV	c) control specification	d) data store	
(x)	Which of the following factors are influ correct option	uenced on the architect? Anticipate and infer the	
*	a) Background and experience of the architects	b) Developing an organization	÷
(xi)	c). Customers and end users What is a sequence diagram? Examine	d) All of the above and choose the correct alternative	
	<ul> <li>a) A diagram that shows interacting individuals along the top of the diagram and messages passed among them arranged in temporal order down the</li> <li>c) A diagram that shows the change of a</li> </ul>	b) ) A diagram that shows messages superimposed on a diagram depicting collaborating individuals and the links among them	
/vii\	individual's state over time	All of the mentioned  Assess and choose the correct option	
(111)		b) Sequential	
	a) Secure	d) Simple	
/viii\	c) Ordered Which of the following is not a SOA play	n for a project? Choose the correct option	
(XIII)		b) amount of technical work	
	a) evaluations to be performed	d) documents to be produced by the SQA	,
	audits and reviews to be performed	group	
(xiv)	Objects are executed Ex	xamine and choose the correct alternative	
(va)	<ul><li>a) sequentially</li><li>c) sequentially &amp; Parallel</li><li>Which of the following are types of cod</li></ul>	b) in Parallel d) none of the mentioned de review 2 Choose the correct option	
(XV)		b) Code inspection	
	a) Code Walkthrough c) Both A and B	d) None	
	cy both A and b		
	(Classes Ass	Group-B	- 4
	(Snort An	nswer Type Questions) 3 >	₹5=15
	escribe the three basic elements of an EF	OR	(3)
	fferentiate between Physical DFD and Lo		(3)
	fferentiate between Top-down and Botto	OR	(3)
	fferentiate briefly a Decision tree and a c		(3)
		OR	(3)
	onstruct State Chart Diagram and Activity		(3)
	plain the five rules in Structured Program	OR	(3)
W = 144	hat are the types of Coupling and Cohesi		(3)
o. VV	rite down the differences between Integ	Gration Testing and System Testing  OR	(3)
W	rite down what is meant by Quality Assu		(3)
		Group-C	
	(Long Ans		6=30

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	What is Integration Testing? Write down the various approaches of Integration Testing and explain each and every one of them	(5)
	OR	
	Unit Testing techniques	(-)
12.	Write down the work-flow of Unit Testing in software engineering and describe the various	• •
	Explain what is meant by System Documentation in Software Engineering	(5)
	OR	(5)
11.	Explain information hiding in software engineering	(5)
	What is meant by Cohesion in Software Engineering. Explain by a suitable example	(5)
	OR	(5)
10	Analyse Modular Programming in Software Engineering by citing a suitable example	(5)
	OR Write down the types of Structured Chart and describe them	(5)
9.	Examine and explain what is Top_down and Bottom_up approach in Software Engineering	(5)
0	Demonstrate an ER Diagram of a project which performs online railway reservation	(5)
	OR	
8.	Describe the different types and levels of Data Flow Diagram	(5)
	Calculate the Effort, development time, average staff size, and productivity of the project.	
	experience on similar type of projects. The project schedule is not very tight. Examine and	(3)
	A project size of 200 KLOC is to be developed. Software development team has average	(5)
	OR	
٠.	Describe Incremental Model and Spiral Model by detailed explanation of each and every phase of their Software Development Life Cycle	(5)
7	Describe Incremental Maria I. I. a.	VORMALI