Library
Brainware University
398, Ramkrishnapur Road, Barasal
Kolkala, West Bengal-700125



## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025
Programme – MCA-2022/MCA-2023
Course Name – Software Engineering using UML
Course Code - MCA302
( Semester III )

Full Marks: 60

a) Cost reduction

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A  (Multiple Choice Type Question)  1 x 19  (i) Which model is also known as Verification and validation model?  a) Waterfall model  c) V- Model  b) Big Bang model  d) Spiral Model  (ii) Which is not a characteristic of SRS?  a) Verifiable  c) Black Box View	
(i) Which model is also known as Verification and validation model?  a) Waterfall model  c) V- Model  b) Big Bang model  d) Spiral Model  ii) Which is not a characteristic of SRS?  a) Verifiable  c) Black Box View  b) Detailed View	5=15
a) Verifiable c) Black Box View b) Detailed View	
(iii) Name that is not a type of SDLC Model?	
a) Waterfall Model c) Capability Maturity Model d) Spiral Model (iv) Identify the model that covers Risk analysis.	
a) Evolutionary b) Spiral c) Waterfall d) Prototype  (v) The purpose of the Prototyping model is	
<ul> <li>a) End user understanding and approval</li> <li>b) Understanding program logic</li> <li>c) Testing is not required</li> <li>d) Covering Risk analysis</li> <li>(vi) Select one that does not belong to the same category.</li> </ul>	
a) Function Point b) LOC c) COCOMO d) Feature point metrics (vii) Select the another name of Black box testing.	
a) glass box testing c) structural testing d) none of these (viii) Identify the category of Alpha and Beta Testing.	
a) Acceptance Testing b) System Testing c) Unit Testing d) Integration Testing (ix) Identify the following non-business goal of re-engineering.	

b) Time reduction

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(x)	c) Maintainability Kelkala, West Bengal-700125 The detailed study of an existing system is refe	d) None of the mentiones	
	<ul> <li>a) Feasibility study</li> <li>c) System Analysis</li> <li>In the Analysis phase, the development of the</li> </ul>	b) System design d) System Testing	
	statement of the goals and objectives of the p	roject.	
(xii)	<ul><li>a) Documentation</li><li>c) Program specification</li><li>Which of the following is/are the valid relation</li></ul>	b) Flowchart d) Data flow diagram	
	<ul><li>a) Generalization</li><li>c) System</li><li>) Considering the example of issue/return of a language</li></ul>	<ul> <li>b) Component</li> <li>d) All of the mentioned</li> <li>book, cataloging etc. in a library</li> </ul>	
(viv	management. What type of management requa) Enduring c) Both enduring and Volatile ) Which of these software engineering activitie	b) Volatile d) All of the mentioned	
	<ul> <li>a) Software verification</li> <li>c) Software validation</li> <li>) Which of these are not a characteristic of a go</li> </ul>	<ul><li>b) Software dependence</li><li>d) None of these</li></ul>	
	a) Modularity c) Overcomplication	b) Flexibility d) Maintainability	
		oup-B Type Questions) 3	x 5=15
3. I 4.	dentify the terms 'Error', 'Bug', 'Fault', and 'Fail Differentiate between DFD and ERD. Explain about level-0 Data Flow Diagram.	ure' with examples.	(3) (3) (3) (3)
	Discriminate alpha testing and beta testing. Correlate between Cohesion and Coupling.		(3)
	What are the basic concepts of Total Quality Ma	OR anagement (TQM)?	(3)
	Gr	oup-C	
		•	x 6=30
	Explain the following terms with a proper diag	gram: 1. Spiral Model. 2. V Model. approaches in debugging? n. the phone. Design the use case diagram and each step of the process, from the moment I start eating the pizza. Include activities that	(5) (5) (5) (5) (5)
12	2. Summarize the principles of project schedulin		(5)
	Justify Implicit and Explicit effects on software studies and its outcomes.	OR e requirement, evaluating the feasibility	(5)