(6 Pages) Reg. No.:	2.	Object that collects data on request rather than autonomously is known as		
Code No.: 10531 E Sub. Code: CMCA 42		(a) Active Object (b) Passive object		
		(c) Multiple instance (d) None of the above		
B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2024.		How many phases are there in requirement analysis?		
Fourth Semester		(a) Three (b) Four		
Computer Application—Core		(c) Five (d) Six		
SOFTWARE ENGINEERING		Which one of the following is a requirement that fits in a developer models?		
(For those who joined in July 2021 – 2022)		(a) Availability (b) Testability		
Time: Three hours Maximum: 75 marks		(c) Usability (d) Flexibility		
PART A — $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions.		If the function calls between two modules involve passing large chunks of shared data the modules		
		are coupled		
Choose the correct answer.		(a) loosely (b) moderately		
1. Which one of the following is not a standard software development process model?		(c) tightly (d) not		
(a) Waterfall model	6.	is a standard graphical language for modeling object oriented software		
(b) Watershed model		(a) UML (b) Java		
(c) RAD model		(c) .Net (d) C#		
(d) V model				

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7.		metrics counts the number of es in the graph representing user defined larations
	(a)	size (b) unit
	(c)	token (d) system
8.		design phase, which is the primary area cern?
	(a)	Architecture (b) Data
	(c)	Interface (d) All the above
9.	is te	type of software testing in which each model ested along in an accept to discover and errors as code is known as
	(a)	integration
	(b)	acceptance testing
	(c)	mutation testing
	(d)	unit testing
10.		is the process of deciding the sequence a
	set o	of activities will be performed
	(a)	Scheduling
	(b)	Tracking
	(c)	Testing
	(d)	Planning
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PART B - $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Define ER diagram. Discuss with example.

Or

- (b) Write the principal idea of the evolutionary model and write the advantages and disadvantages.
- 12. (a) What are the responsibilities of a software project manager?

Or

- (b) Write the functional requirements? Explain it.
- 13. (a) Why we need a standard modeling language? Explain.

Or

(b) Discuss about the approaches of software design.

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[P.T.O.]

14. (a) What are the different types of cohesion?

Discuss it.

Or

- (b) What is the importance of developing an architectural model?
- 15. (a) What is the purpose of earned value charts? Explain.

Or

(b) What is live lock? Explain it.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write the features of object oriented language. Discuss it.

Or

- (b) Describe Spiral model in detail.
- 17. (a) How to describe a single use case? Explain.

Or

(b) Explain about the techniques for gathering requirements.

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18. (a) Define Collaboration diagram. Discuss it.

Or

- (b) What is UML class diagram? Discuss with example.
- 19. (a) Explain about Architectural patterns in detail.

Or

- (b) Explain the process of writing a good design document.
- 20. (a) Compare PERT chart and Gantt chart.

Or

(b) What are the defects handling stress and unusual situations? Explain.

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