(6 pages)			
Reg. No.:	2. ——— are also known as clients.		
	(a) Customers (b) Users		
Code No.: 20239 E Sub. Code: SMCA 51/ AMCA 51	(c) Developers (d) Managers		
	3. — is a process by which a software		
B.C.A. (CBCS) DEGREE EXAMINATION,	engineer learns background information.		
NOVEMBER 2022.	(a) Domain analysis		
Fifth Semester	(b) Requirement analysis (c) Specification analysis		
Computer Application — Core			
	(d) Information analysis		
SOFTWARE ENGINEERING	4. — is a statement about what the		
(For those who joined in July 2017 onwards)	proposed system will do.		
Time: Three hours Maximum: 75 marks	(a) Task (b) Order		
PART A — $(10 \times 1 = 10 \text{ marks})$	(c) Requirement (d) Interface		
Answer ALL questions.	5. ———— is used to show how two classes are related to each other.		
Choose the correct answer:			
1. ——— software is designed to be sold on open	(a) Association (b) Generalization		
1. ———— software is designed to be sold on open market.	(c) Multiplicity (d) None of these		
(a) Custom software	 Aggregations are specified using a ———————————————————————————————————		
(b) Generic software	(a) rectangle (b) circle		
(c) Embedded software	(c) diamond (d) line		
(d) None of these	(c) diamond (d) line		

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7.	In -	des	sign, you	start with very high
1	level structure of the system.			
	(a)	top-down	(b)	bottom-up
	(c)	architecture	(d)	class
8.	_	occu	rs when	there are inter
dependencies between one module and another.				
	(a)	Cohesion	(b)	Coupling
	(c)	Utility	(d)	Network
9.	chart shows the sequence in which			
	tasks must be completed.			
	(a)	PERT	(b)	Gantt
	(c)	Earn value	(d)	None
10.	_	is the	process of	deciding the sequence
	a set of activities will be performed.			
	(a)	Scheduling	(b)	Tracking
	(c)	Testing	(d)	Planning
		W	Page 3	Code No. : 20239 E

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) Discuss the nature of software.

Or

- (b) What is an object? Explain with example.
- 12. (a) What are functional requirements? Explain.

Or

- (b) Give a brief account on generalization.
- 13. (a) What is reflexive association? Explain.

Or

- (b) Explain sequence diagrams.
- 14. (a) Define coupling. What are the different types of coupling?

Or

- (b) Explain Broker architectural pattern.
- 15. (a) Discuss project scheduling and tracking.

Or

(b) Explain the roles of development team.

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[P.T.O.]

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) Explain in detail the activities common to software projects.

Or

- (b) Explain the features of object oriented language.
- 17. (a) Discuss and explain the techniques for analyzing and gathering requirements.

Or

- (b) Explain about difficulties and risks in domain and requirements analysis.
- 18. (a) Explain aggregation and interfaces.

Or

- (b) Explain State diagrams.
- 19. (a) Explain MVC architectural pattern.

Or

(b) Explain the process of writing a good design document.

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20. (a) Explain the defects in ordinary algorithms.

Or

(b) Explain the defects in numerical algorithms.

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