		OTHI COL	K24U 0831	K24L
Reg.	No.:	se in function oriented chaign.	Explain the design phar	Alleria Service
Nam	e:inolignoseh	the contest of Refrance	Explain the following in	SÍ
IV		(CBCSS - OBE - Regular / ent) Examination, April 2024		
		to 2022 Admissions)		13.
	4B08BCA:	SOFTWARE ENGINEERING	Justify the benefit of m	14.
Time	: 3 Hours	PART - A	Max. Marks : 40	
	(4×3=12)	(Short Answer)	er any 4 questions :	wanA
Ans	swer all questions. al beviou	ess ? List out the will the m	W( <b>6</b> ≠1× <b>6</b> )oftware proc	15.
1.	Define software.		process.	
2.	What is meant by concept of	exploration in software developr	Explain the three? tren	16.
3.	What is the significance of	requirement engineering activity	Explain the design per	. 77.
4.	Differentiate between object	foriented design and function o	riented design.	81
5.	What is meant by aggregation	on of classes ? ha qu-mettod	Compare and contrast	19.
6.	Define the term 'test case'.	Dased losikid	i) Describe data flow i	.08
	(1+5)		ii) Explain definition	
Ansv	ver any 6 questions.	(Long Essay)	(6×2=12)	
7.	Define incremental software	e model.	wer any 2 questions :	/ana
8.	What does win-win mean in engineering activity?	the context of negotiation during		.19
9.	What are the basic guide gathering?	lines for conducting meeting		22.
10.	Explain the consequences specification.	of inconsistencies in the software inconsistencies in the software inconsistencies in the software inconsistency and black box less case.	Describe various coner atnementupen en Elaborate on black box	23.

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11.	Explain the design phase in function oriented design.	Rec
12.	Explain the following in the context of software design description:  i) Design constraint  ii) Design entity  Context of software design description:  (1+1)	
13.	Explain inheritance property in object oriented designing.	
14.	Justify the benefit of mixed integration testing.	
	PART ÷ C Narks: 40  (Essay)	mIT
Answ	ver any 4 questions : (4×3=12)	
15.	What is software process? List out the activities involved in a software is newsprocess.	Ar 1.
16.	Explain the three levels of software design	S
17.		3
18.	Illustrate the concept of composition in object oriented designing.	4,
19.	Compare and contrast bottom-up and top-down integration testing strategies.arlW	.8
20.	i) Describe data flow based testing.	.8
	ii) Explain definition – use chain of a variable. (2+1)	
	(\$1=\$x8) (Long Essay) snoitsaup 8 yns raw	Ans
Ansv	wer any 2 questions :	Ÿ.
21.	What are the desirable characteristics of well-engineered software?	.8
22.	Explain the outcomes of requirements gathering phase, big pisad entress tank	.0
23.	Describe various cohesion types.  Explain the consequences of inconsistencies in the software requirements.	10.
24.	Elaborate on black box testing and black box test case designing.	NAC S

K23U 1075 Reg. No.:.... What is an Object ? Name : ..... What is a test case? IV Semester B.C.A. Degree (CBCSS - QBE - Regular) Supplementary/ tsdW ... Improvement) Examination, April 2023 (2019 Admission Onwards) 4B08BCA : SOFTWARE ENGINEERING HOUSE ESSAY. Answer any 4 QUESTION DISTRIBUTION OF THE STATE OF T (\$1=ExA) 15. Discot: saraM.xaMe between waterfall model and increment process moraruoH 8: amiT 16. What is meant by requirement eligitation? Explain various steps of requirement answers Short answer. Answer all questions. 18. Explain the importance and objectives of 1. What is meant by SRS? testing small modules are tested in isolation. Serious and liams and its industrial are tested in isolation. 3. Risk management is an important feature of 20. Briefly explain boundary v 4. Actors are represented as stick figure in diagram. testing we ignore the internal structure of the code. Long essay. Answer any 2 question Explain alpha testing. re hardware. 21. Discuss the characteristics of Sor 22. Describe (a) Prototyping model and (b) Short essay. Answer any 6 questions. (6x2=12) (6x2=12) (6x2=12) (6x2=12) 7. State the difference between a program and a software. 24. What is structural testing Cyclomatic Complexity 8. Explain waterfall model. 9. What is a prototype? 10. What is meant by context diagram?

11. List out any 4 design notations.

K23U 107501 UESXI	
12. What is an Object?	g. No. :
13. What is a test case?	me::
(PART - CTO	V Semes ignites xod stidw bna griftes x improvement) Exami (2019 Admissi Core Co
Essay. Answer any 4 questions.	AWTROS: ADB8084 (4×3=12)
15. Discuss the difference between waterfall mod	el and Increment process model el en
What is meant by requirement elicitation? Disc in detail.	cuss any 1 elicitation techniques
17. Explain various steps of requirement analysis	hort answer. Answer all questions.
18. Explain the importance and objectives of desi	What is meant by SRS ?
19. What are the various symbols used in DFD. E Level2 diagrams and its importance?	
20. Briefly explain boundary value analysis	. Risk management is an important feats
PART – D	Actors are represented as stick for an area.
	Intesting we ignore the (01=2×2)  Explain alpha testing
21. Discuss the characteristics of Software compa	
STEEL STORY OF THE	THAG

22. Describe (a) Prototyping model and (b) RAD model.

23. Write notes on (a) use case diagram and (b) activity diagram.

24. What is structural testing? Write notes on flow graph, DD path graph and Cyclomatic Complexity. 8. Explain waterfall model.

9. What is a prototype?

10. What is meant by context diagram?

11. List out any 4 design notations.

K22U 1510



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Nam	e:.		•••••	 	 •••

#### IV Semester B.C.A. Degree CBCSS (OBE) Regular/Supplementary/ **Improvement Examination, April 2022** (2019 Admission Onwards) **Core Course**

**4B08BCA: SOFTWARE ENGINEERING** 

Time: 3 Hours	Max. Marks: 40

•	PART – A	
	(Short Answer)	
Answer all questions :		(6×1=6)
1. What do you mean by Softwa	are ?	
2 document is the specification phase.	e final outcome of the red	quirements analysis and
<ol><li>The GUI part of software sys model.</li></ol>	tem is almost always de	veloped using
4. ADT stands for		
5. RAD stands for		
6. DFD stands for	er er of gitter og er	
	PART – B	
	(Short Essay)	
Answer any 6 questions :		(6×2=12

- 7. What is functional independence of modules?
- 8. What is the main objective of code walk-through?
- 9. What do you mean by testing?
- 10. Explain control flow graph.
- 11. What do you mean by feasibility study?

#### K22U 1510

- 12. What do you mean by multiple inheritance?
- 13. What do you mean by structured programming?
- 14. How is the SRS document validated ?

## PART – C (Essay)

### Answer any 4 questions:

 $(4 \times 3 = 12)$ 

- 15. What is the use of software documentation?
- 16. Explain importance of standard style of coding.
- 17. Explain SDLC.
- 18. Explain main two approaches in software design.
- 19. What is the role of requirement analysis in software design?
- 20. Mention the characteristics of a good software design.

# PART – D (Long Essay)

### Answer any 2 questions:

 $(2 \times 5 = 10)$ 

- 21. Levels of software product testing.
- 22. Explain different approaches of software design.
- 23. Characteristics of a good SRS document.
- 24. Discuss the life cycle of classical waterfall model.

K21U 1074 Reg. No.: ..... Name : ..... IV Semester B.C.A. Degree CBCSS (OBE) Regular Examination, April 2021 (2019 Admission Only) **Core Course** 4B08BCA: SOFTWARE ENGINEERING Max. Marks: 40 Time: 3 Hours PART - A (Short Answer) (6×1=6) Answer all questions. 1. SDLC stands for 2. What is Slack Time? 3. Explain Unit Testing. 4. SRS document is formal specification of system. True or False. 5. UML stands for 6. RAD stands for PART - B (Short Essay) (6×2=12) Answer any 6 questions. 7. What do you mean by Software engineering? Differentiate Programs and Products. 9. Discuss the importance of feasibility study in software development. 10. Explain Cohesion and Coupling. 11. Explain Multiple Inheritance.

P.T.O.

### K21U 1074

- 12. What is code inspection?
- 13. Explain Alpha and beta testing. GRO) ROCS (ORE) Rocal International Alpha and beta testing.
- 14. What is the need of validation?

PART - C TOZ : ADBBOBA

(Essay)

Answer any 4 questions.

 $(4 \times 3 = 12)$ 

2. What is Slack Time ?

- 15. Explain different types of Software Development Projects.
- 16. What is requirement analysis?
- 17. Explain main classifications of design activities.
- 18. Explain different approaches of software design.
- 19. Advantages of object oriented design.
- 20. Differentiate verification and validation. a noise of lose a smoot at memuoob 282 A

PART - D

(Long Essay)

(2×5=10)

- Answer any 2 questions.
- 21. Discuss different software life cycle models.
- 22. Explain different types of testing.
- 23. Explain importance and objectives of software design. 3 vd nsem boy ob farlW . T
- 24. Discuss various steps of requirement analysis on a managed elasticated and second elasticated and elasticated and elasticated and elasticated and elasticate
  - 0. Explain Cohesion and Coupling.
    - 11. Explain Multiple Inheritance