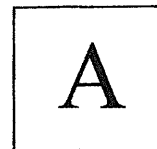


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## ***B.Tech. Degree V Semester Special Supplementary Examination September 2022***

### **CS 19-202-0503 OBJECT ORIENTED SOFTWARE ENGINEERING (2019 Scheme)**

Time: 3 Hours

Maximum Marks: 60

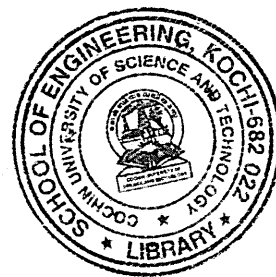
**Course Outcome**

On successful completion of the course, the students will be able to:

- CO1: Compare and classify various software process / life cycle models.  
 CO2: Analyse structured vs object oriented modeling.  
 CO3: Illustrate various techniques in software quality assurance.  
 CO4: Analyze various principles of software project management.  
 CO5: Compare and classify the new trends in life cycle models in industry.  
 CO6: Analyze and make use of any one testing tool used in the industry.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 – Analyze,  
 L5 – Evaluate, L6 – Create

PO – Programme Outcome

**PART A**(Answer **ALL** questions)

		(8 × 3 = 24)	Marks	BL	CO	PO
I. (a)	Who should be consulted when collecting the requirements of a computer-based system to replace an existing manual system?	3	3	L2	1	1,2
(b)	Suggest a suitable life cycle model for a software project which your organization has undertaken on behalf of certain customer who is likely to change his requirements frequently. Give justification.	3	3	L3	1	2
(c)	Differentiate function oriented and object-oriented design approaches.	3	3	L2	2	1
(d)	What are the desirable characteristics of a good user interface?	3	3	L2	5	1,4
(e)	Give the important quality factors for a software product.	3	3	L1	3	3
(f)	Differentiate various system testing methods.	3	3	L3	6	1,2
(g)	Mention the use of Gantt chart in project scheduling.	3	3	L2	4	3
(h)	Write the different team structures followed in software development organizations.	3	3	L1	4	1, 12

**PART B**

(4 × 12 = 48)

II.	Explain the phases of iterative waterfall model with diagram.	12	12	L2	1	1,2
<b>OR</b>						
III.	List the contents of a good SRS. Explain with IEEE format. Distinguish functional and non-functional requirements. Develop sample requirement for each type for library automation software.	12	12	L2	1	1,2
IV.	Describe the concept of cohesion and coupling in the context of software design. List and define their classification with examples.	12	12	L3	2	1,3
<b>OR</b>						
V.	What are the different system views that can be modeled using UML? Explain the different UML diagrams which can be used to capture each of the views.	12	12	L3	2	1,2

(P.T.O)

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		Marks	BL	CO	PO
VI.	Explain Blackbox testing (Functional testing) approaches. Apply two Blackbox testing approaches for test case design.	12	L3	6	1,4
<b>OR</b>					
VII.	Describe the quality standards, ISO 9000 and SEI CMM in detail.	12	L2	3	1,12
VIII.	Differentiate between basic COCOMO and intermediate COCOMO. Apply COCOMO estimation model for a sample software project for cost estimation.	12	L3	4	1,2
<b>OR</b>					
IX.	List various tools for project scheduling and explain their application in project scheduling.	12	L3	4	2,12

Bloom's Taxonomy Levels

L1=5%, L2=40% , L3=52.5%, L4=2.5%

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