

## **End Term (Even) Semester Examination May-June 2025**

	Roll no	
Name of the Program and semester Name of the Course: Introduction Course Code: TBC 402/760 4	to Software Engineering	
Time: 3 hour	Maximum Ma	urks: 100
Note:  (i) All the questions are comp (ii) Answer any two sub questi (iii) Total marks for each questi (iv) Each sub-question carries	ions from a, b and c in each main question. ion is 20 (twenty).	
<ul><li>b. Discuss the importance of codi costs.</li><li>c.A startup is planning to develop</li></ul>	(2X10=20) had and non-functional requirements with suitable examplesting guidelines and documentation in reducing software mains a financial mobile app with a very tight deadline and evolved would you recommend? Justify your answer.	ntenance CO3
approriate example. b.Explain cohesion and coupling of coupling of coupling of coupling of the	(2X10=20) eering in software maintenance? Support your answer by prowith reference to software design quality.  Library Management System, showing the interactions between, and Administrator. Include at least five use cases	coviding CO6 CO2
	(2X10=20) ort activities such as project documentation, internal interfass of at least two widely used CASE tools and the features the	ice deśign, and
should identify at least three pro- (like User Database, Menu Datab Label data flows clearly, and expl	a Flow Diagram (DFD) for an online food ordering system. You cesses (e.g., Place Order, Process Payment, Update Inventor ase), and external entities (such as Customer and Restaurar ain how the DFD contributes to a well-structured design.  Box Testing based on parameters like test design, tester known	our diagram ry), data store nt Admin). CO2
risk and ensure software quality	(2X10=20 in ager handling a distributed development team. How would across all teams?  In the sting Explain their objectives, key differences, and when the sting explain their objectives.	you manage CO5

typically performed in the software development life cycle.



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c. Briefly explain the importance of UML diagrams. Illustrate key components of a UML Class Diagram?

Q5. (2X10=	20 Marks)	
a. Compare the Spiral Model and RAD Model. Highlight at least three key differences.	CO1	
b. Analyze how object-oriented coding practices (like encapsulation and inheritance) improve code		
reusability and maintainability. Support your answer with examples.	CO3	
c. A healthcare software used in a hospital is showing intermittent faults during patient of	lata retrieval.	
Describe a testing approach you would adopt and justify your strategy.	CO6	

- Note For the question paper setters:

   Question paper should over all the COs of the course.

   Please specify COs against each question.