

Printed page: 2

Subject Code: ACSBS0402

Roll No:

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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

*Affiliated to Dr. A.P. J Abdul Kalam Technical University, Uttar Pradesh, Lucknow*

Course: B.TECH

Branch: CSBS

Semester: IV

Examination-PUT

Year- (2021-22)

Subject Name: Software Design With UML

Time: 2:00 Hrs

Max. Marks:60

**General Instructions:**

This Question paper consists of...2..... pages & ...23... questions. It comprises of three Sections -A, B, & C.

2. Section A -Q.No- 1 is Very short answer type questions carrying 1 mark each, Q. No- 2 is Short Answer type-I Question carrying 2 mark each. You are expected to answer them as directed.

3. Section B- Q.No-3 is Short Answer type-II questions carrying 5 marks each. Attempt any four out of five questions given.

4. Section C - Q. No-4 is Long Answer type questions carrying 6 marks each. Attempt any four out of six questions given.

**SECTION – A**

1.	Attempt <u>all</u> parts (Very Short Answer Type)-	[8x1=08]
1-a.	Define UML language	(1) CO3
1-b.	Define term Actor	(1) CO3
1-c.	Define join notation in activity diagram	(1) CO5
1-d.	Define term State	(1) CO5
1-e.	Describe term Classes	(1) CO4
1-f.	Define term Dialog map	(1) CO4
1-g.	Define term Lifeline	(1) CO3
1-h.	Define term node	(1) CO5
2.	Attempt <u>all</u> parts (Short Answer Type)-	[4x2=08]
2-a.	Describe about the Interaction diagram	(2) CO3
2-b.	Define term package diagram and its notation	(2) CO4
2-c.	Describe term Composition connection	(2) CO4



2-d.	Define term Internal events and Signal events	(2)	CO5
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**SECTION – B**

3.	Attempt any <u>four</u> out of five questions-	[4x5=20]
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3-a.	Differentiate between Deployment diagram and Interaction Diagrams.	(5)	CO5
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3-b.	Write use case goal for Student management system	(5)	CO3
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3-c.	Describe about the Black box model of package diagram with its advantages and disadvantages	(5)	CO4
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3-d.	Write the steps of how to draw a state diagram explain with example	(5)	CO5
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3-e.	Explain the concept of Aggregation and Direct Association with example	(5)	CO4
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**SECTION – C**

4.	Attempt any <u>four</u> out of six questions-	[4x6=24]
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4-a.	Explain the Following terms: 1.Messages and its type in Sequence diagram 2.Lifeline and Activation in Sequence diagram(with notations)	(6)	CO3
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4-b.	Draw state diagram for Airline reservation system. Discuss the advantages of state diagram	(6)	CO5
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4-c.	Design an deployment diagram for Online food delivery system. Explain it	(6)	CO5
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4-d.	Design Class diagram for Hospital management system. List the advantages of Class Diagram	(6)	CO4
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4-e.	Describe term Multiplicity. Differentiate about multiplicity and association	(6)	CO4
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4-f.	Describe about the collaboration diagram in detail with any example.	(6)	CO3
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-----THE END -----