

**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 IIIrd

Sessional Examination 3<sup>rd</sup> Year- (2021 – 2022)

Subject Name: Software Engineering

Time: 1.15Hours

[ SET- 2 ]

Max. Marks:30

**General Instructions:**

- This Question paper consists of 01 pages & 5 questions. It comprises of three Sections, A, B, and C
- **Section A** - Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.
- **Section B** - Question No-3 is Short answer type questions carrying 5 marks each. Attempt any two out of three questions given.
- **Section C** - Question No. 4 & 5 are Long answer type (within unit choice) questions carrying 6 marks each. Attempt any one part a or b.

<b>SECTION – A</b>		<b>[08Marks]</b>	
<b>1.</b>	<b>All questions are compulsory</b>	<b>(4×1=4)</b>	
a.	Which is not a principle of software testing i. Early Testing ii. Pesticide paradox iii. Identify Critical Path iv. Absence of errors fallacy	(1)	CO5
b.	Which is not a software quality attribute i. Reliability ii. Security iii. Budgeted Cost iv. Compatibility	(1)	CO3
c.	Software Quality metrics can be classified into _____ types i. 3 ii. 2 iii. 5 iv. 4	(1)	CO4
d.	Functional Testing is also referred as i. White Box Testing ii. Sand Box Testing iii. Maintenance testing iv. Black Box Testing	(1)	CO5
<b>2.</b>	<b>All questions are compulsory</b>	<b>(2×2=4)</b>	
a.	Write short note on UML?	(2)	CO4
b.	Differentiate between white box testing and black box testing?	(2)	CO5
<b>SECTION – B</b>		<b>[10Marks]</b>	
<b>3.</b>	<b>Answer any two of the following-</b>	<b>(2×5=10)</b>	
a.	Explain CMM model in detail?	(5)	CO3
b.	Explain different modelling techniques?	(5)	CO4



	c.	Differentiate between Verification and Validation Process?	(5)	CO5
<b>SECTION – C</b>			<b>[12Marks]</b>	
<b>4</b>	<b>Answer any one of the following-</b>		<b>(1×6=6)</b>	
	a.	Explain ISO 9126 in detailed with proper diagram?	(6)	CO3
	b.	Describe Software metrics which are used to measure the software in detail. Discuss clearly the advantages and disadvantages of these metrics?	(6)	CO4
<b>5.</b>	<b>Answer any one of the following-</b>		<b>(1×6=6)</b>	
	a.	Explain McCall and Boehm model?	(6)	CO3
	b.	What are the different stages and techniques and challenges for requirement elicitation?	(6)	CO5