## MASTER OF COMPUTER APPLICATIONS (MCA-NEW)

## **Term-End Examination**

## **June, 2022**

## MCS-213 : SOFTWARE ENGINEERING

Time : 3 hours

Maximum Marks : 100

(Weightage : 70%)

Note: Question no. 1 is compulsory. Attempt any three questions from the rest.

<b>1.</b> (a)	Define Cleanroom Software Engineering.	
	What is its significance ? Discuss the	
	underlying principles of Cleanroom-based	
	Software Development.	10
(b)	List and explain various phases of Spiral	
	Model.	10
(c)	Write a short note on Cyclomatic	
	Complexity.	10
(d)	Explain various levels of SEI-CMM.	10
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2.	(a)	What is Unit Testing ? How does it differ from Integration Testing ?	10
	(b)	Develop SRS for a "Railway Reservation System". Make necessary assumptions.	10
3.	(a)	What is meant by "Change Management" ? Explain the process of Change Management.	10
	(b)	What is Cohesion ? Explain various types of Cohesion.	10
4.	(a)	Draw the first 3-levels of DFD's for a "Railway Reservation System". Make necessary assumptions.	10
	(b)	What is meant by "Verification" ? How does it differ from "Validation" ? Give an example for each.	10
5.	(a)	What is meant by "Version Control" ? Explain with an example.	10
	(b)	Write a short note on "Baselines".	10

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