Name: Enrolment No:	

UPES
End Semester Examination, December 2023

Course: Software Engineering and Agile Practices	Semester: I
Program: MCA	Time : 03 hrs.
Course Code: CSEG7018	Max. Marks: 100

Instructions: Attempt all questions.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Give valid reason for structuring SRS document by mentioning its components.	4	CO1
Q 2	Differentiate between functional and non-functional requirements.	4	CO2
Q 3	Discuss Four Values of the Agile Manifesto.	4	CO4
Q 4	Describe the process model that you would choose to manufacture a car. Explain giving suitable reasons	4	CO1
Q 5	Illustrate how do you mitigate or reduce identified software risks?	4	CO2

SECTION B
(4Qx10M= 40 Marks)

Q 6	Write note on business process engineering and product engineering?	10	CO1
Q 7	A software company is bidding for a government contract to develop a complex defense system. Explain the key differences between COCOMO and COCOMO II, and how COCOMO II can be more suitable for this type of project.	10	CO2
Q 8	Define the meaning of quality assurance. Explain the role of Quality assurance in Project Success. **OR** Explain software reliability and define how software and hardware reliability related to each other.	10	CO1

Q 9	Write short notes on following:
	   a) Spiral Model
	   b) Prototype Model
		10	CO2

SECTION-C
(2Qx20M=40 Marks)

Q 10	Justify "Design is not coding and coding is not design". Support with a real case scenario.	20	CO3
Q 11	Draw 0-level and 1-level DFD for Hospital Management System. **OR** Draw a proper Agile planning model and discuss its components.	20	CO4