Code: CSCS2T2

## I M.Tech - II Semester - Supplementary Examinations JULY - 2019

## SOFTWARE ENGINEERING (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours Max Marks: 70 Answer any FIVE questions. All questions carry equal marks

- 1. a) What are the characteristics of software? Explain the following software myths:
  - i) Management myths. ii) Practitioner's myths. 7 M
  - b) Explain in detail all the levels of CMMI with key process area. What is process assessment? Explain with suitable diagram.

    7 M
- 2. a) What do you understand by evolutionary model? Draw and explain the spiral model with its Advantages and disadvantages.7 M
  - b) Explain two main types of requirements. What are the problems that arise during requirement analysis? 7 M
- 3. a) Justify why requirement engineering works as a bridge between design and construction. 7 M

	b)	Compare behaviour models with data models.	7 M
4.	a)	Explain the usage of architectural styles and patterns in design engineering.	n 7 M
	b)	What is modularity? For good quality software, modulis important. Justify.	larity 7 M
5.	a)	How system modelling is achieved using UML? What the importance of use-case diagrams in software development?	is 7 M
	b)	Explain function oriented design. How this approach different from object oriented design?	is 7 M
6.	a)	Distinguish between White Box and Black Box testing	g. 7 M
	b)	Discuss in detail about Metrics for Analysis Model and Design model.	d 7 M
7.	a)	Explain various risk management activities. Mention various types of software risks.	7 M
	b)	What do you mean by software metric? Describe its advantages.	7 M

8. a) Write a detailed note on statistical software quality assurance. 7 M

b) Discuss about ISO 9000 Quality standards for software.

7 M