

Day & Date	Semester	Subject Name	Time	Code	Marks
Tuesday 03/04/2018	IV (Fresh)	Introduction to Software Engineering	11.00 AM to 01.30 PM	4103	75

**Instructions:**

- I) Question No. 1 is compulsory
- II) Attempt any 4 questions from Question No.2 to Question No. 8

- 
- |     |    |   |      |
|-----|----|---|------|
| Q1. | a) | Define Software Engineering. Why is it a layered technology?                            | [07] |
|     | b) | Distinguish between Waterfall model & Spiral model                                      | [08] |
| Q2. | a) | Describe the RAD model with advantages & disadvantages                                  | [07] |
|     | b) | Write short notes on:   | [08] |
|     |    | i) Flowchart  |      |
|     |    | ii) Pseudocode  |      |
| Q3. | a) | Explain in detail SEI-CMM   | [07] |
|     | b) | Define Project Planning. Explain the resources that are required to build the software. | [08] |
| Q4. | a) | Define Quality. What are the components of cost of quality?                             | [07] |
|     | b) | How is Failure Analysis done?   | [08] |
| Q5. | a) | Define Risk. What types of risks are likely to occur as the software is built?          | [07] |
|     | b) | Explain the COCOMO model of cost estimation   | [08] |
| Q6. | a) | Define Indirect measures. Explain Function Oriented metrics with example.               | [07] |
|     | b) | Explain how Risk Projection is done   | [08] |
| Q7. | a) | Define Cyclomatic Complexity. How is it computed?                                       | [07] |
|     | b) | What is Black Box testing? Explain Boundary Value Analysis                              | [08] |
| Q8. | a) | What is Software Configuration Management? Explain the various steps in SCM.            | [07] |
|     | b) | Write short notes on:   | [08] |
|     |    | i) PERT   |      |
|     |    | ii) CPM   |      |