

G.R. No.

*Paper Code - U359-124 (T1)*  
**OCTOBER 2019/ INSEM (T1)**

**T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER -I)****COURSE NAME: SOFTWARE ENGINEERING****COURSE CODE: CSUA31174****(PATTERN 2017)**

Time: [1 Hour]

[Max. Marks: 30]

**Instructions to candidates:**

- 1) Answer Q.1 OR Q.2 and Q.3 OR Q.4.
- 2) Figures to the right indicate full marks.
- 3) Use suitable data where ever required.
- 4) Use of scientific calculator is allowed.

Q.1) a) What are the reasons to have a Software Process? What are the [6]  
issues addressed by Umbrella Activities in Layered Model of  
software engineering?

b) Explain with neat diagram incremental model and state its [6]  
advantages and disadvantages.

c) What are the Practitioner's myths? Discuss the reality of these [4]  
myths.

**OR**

Q.2) a) Explain iterative waterfall and prototyping model for software life [6]  
cycle and various activities in each phase.

b) Suppose that you are developing the software for a nuclear [6]  
power plant control system. Select the most appropriate model  
for project justifies your answer.

c) What are the conditions in which Rapid Application Development [4]  
Model is preferred?

Q.3) a) Explain Scrum- process flow, scrum roles, events and artifacts [6]  
& scrum cycle description with suitable diagram.

- b) Compare the agile and evolutionary process models with a specific process model for each. [4]
- c) Explain following [4]
  - 1) Test driven development
  - 2) Refactoring

**OR**

- Q.4) a) What is Agile method? Explain Principles of Agile Method. [6]
- b) Compare exploratory testing & scripted testing with suitable example. [4]
  - c) What is the difference between plan-driven and agile approaches to system specification [4]