

Total No. of Questions – [4]

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T. Y. B. TECH. (Information Technology) (SEMESTER -V)

COURSE NAME: Software Engineering

COURSE CODE: ITUA31174

(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 of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1) a) What is software engineering? What are the characteristics of software? What are objectives of software engineering? [6]
- b) Explain generic process model of software development. [6]
- c) Provide two examples of software projects that would be amenable to incremental model. Be specific. [4]

OR

- Q.2) a) Define software. Compare software and hardware based on their failure curves. [6]
- b) Explain spiral model. Give advantages and disadvantages of it. [6]
- c) Compare Prototyping with RAD model. [4]
- Q.3) a) Discuss XP values and XP process. [6]
- b) Agile Means No Planning/ Documentation. Justify your answer [4]
- c) Explain meaning of the following in one sentence: [4]
- a. Test driven development
 - b. Refactoring
 - c. Pair programming
 - d. Sprint

OR

- Q.4) a) List down agile manifesto. Discuss the principles help to achieve the agility. [6]
- b) Is agile Process model followed iterative and incremental development. Justify [4]
- c) Describe disadvantages of agile process model. [4]

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