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Paper Code: U359-124(ES6)

DECEMBER 2019/ENDSEM**T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)****COURSE NAME: SOFTWARE ENGINEERING****COURSE CODE: CSUA31174****(PATTERN 2017)**

Time: [2 Hours]

[Max. Marks: 50]

Instructions to candidates:

- 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8
- 2) Figures to the right indicate full marks.
- 3) Use suitable data wherever required

Q.1) a) Why Spiral model is called Meta model. Explain advantages and disadvantages of Spiral model. [6]

OR

b) Explain phases of RAD model with suitable diagram. [6]

Q.2) a) Give difference between Traditional and Agile Software Development. [6]

OR

b) How development occurs in Agile? [6]

Q.3) a) Explain User and System requirement with example [6]

OR

b) Explain Requirement Engineering Process [6]

Q.4) a) Explain categories of CASE Tools in detail [4]

OR

b) Apply Risk Mitigation, Monitoring and Management for Staff Turnover example. [4]

Q.5) a) Draw and explain Spiral Model of Software Testing Strategy. [6]

b) Explain Software Quality factors. [4]

c) Differentiate between Verification and Validation. [4]

OR

Q.6) a) Give difference between Quality Assurance and Quality Control. [6]

b) Explain Principles of Software Testing. [4]

c) Give difference between Alpha Testing and Beta Testing. [4]

- Q.7) a) List different frameworks available for scaling of agile. Explain any one with suitable example. [6]
b) Explain collaborative development with example. [4]
c) Explain basic forms of scaling of agile. [4]

OR

- Q.8) a) Explain briefly regarding technology evaluation in software engineering with example. [6]
b) List different global software development challenges. [4]
c) Differentiate between virtual & distributed team. [4]