

Total No. of Questions : 12]

SEAT No. :

P1346

[Total No. of Pages : 2

[4858] - 1090

T.E. (Computer Engineering) (Semester - II)

SOFTWARE ENGINEERING

(2012 Pattern) (End Semester)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

UNIT - I

Q1) Discuss the similarity and differences between pure evolutionary development and the agile development approaches in use today? [7]

OR

Q2) What is Extreme Programming? Explain the Extreme Programming process. [7]

UNIT - II

Q3) What do you mean by CRC? Write the steps for identifying analysis classes using CRC modeling. [7]

OR

Q4) Explain how do we negotiate and validate requirements during requirement analysis process? [7]

UNIT - III

Q5) Explain refactoring? Give the importance of refactoring in improving quality of software. [6]

OR

Q6) Enlist different types of architectural styles and explain any one software architecture in detail. [6]

P.T.O.

UNIT - IV

- Q7)** a) What are the main objective of Software Testing and what are the principles of software testing? [9]
b) Differentiate between : [8]
i) Condition and loop Testing
ii) Verification and Validation

OR

- Q8)** a) What do you understand by system testing? What are the different kinds of System testing that are usually performed on large software products? [9]
b) What do you understand by the term integration testing? Which types of defects are uncovered during integration testing? [8]

UNIT - V

- Q9)** a) Explain in detail software process and project metrics. [9]
b) What are the different categories of Risk. Explain Risk management process in detail. [8]

OR

- Q10)** a) What is project decomposition? What are the work task for communication process using process decomposition. [9]
b) Explain COCOMO model for project cost estimation. [8]

UNIT - VI

- Q11)** a) What is the need for Software Quality ? Explain different McCall's quality factors. [8]
b) What is significance of Object Constraint Language (OCL)? Explain in detail. [8]

OR

- Q12)** a) Explain the working of service-oriented architecture. [8]
b) What is Software Quality? What are the factors affecting Software Quality? [8]

