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Paper Code: TCS-603

End Semester (Back Paper) Examination, 2018-19

3rd Semester

Subject Name: Software Engineering

Time: 3 Hours

MM: 100

Q1. Attempt any two questions.

a. Define the term SDLC? Why is it important to adhere to a life cycle model while developing a large software product? [10]

b. Explain the spiral model of software development. Sketch a neat diagram of spiral model. [10]

c. Differentiate between Incremental model and Iterative model. [10]

Q2. Attempt any two questions .

a) Discuss any 5 principles of Agile Software Development Model. [10]

b) "A good software design has least degree of coupling and high degree of cohesion".
Elaborate the statement and draw out the differences between Cohesion and Coupling. [10]

c) Differentiate between Functional and Non-Functional Requirements. [10]

Q3. Attempt any two questions

a) Explain Data Coupling, Control Coupling and Content Coupling with help of an example. [10]

b) Discuss about the goals of Software Design process. [10]

c) Explain any one. [10]

- a) Halestead's software science
- b) FunctionPoint(FP)basedmeasures

Q4. Attempt any two questions

- a) What do you understand by Use-Case Diagram ?Draw a use-case diagram of online car rental website. [10]
- b) Draw Context Level Diagram and level-1 Diagram of a simple Online Shopping Website.[10]
- c) Explain Regression testing, Reverse engineering and Software re-engineering. [10]

Q5. Attempt any two questions

- a) Explain Unit testing, Integration and system testing and Alpha & beta testing.[10]
- b) What do you understand by SRS?Write an SRS of a simple messenger application for eg: online examination sysytem. [10]
- c) Explain Modern Waterfall Model. Throw light on the disadvantages of the same. [10]