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53 (CS 602) SWEN

2019

SOFTWARE ENGINEERING

Paper : CS 602

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer **any five** questions.

1. In the context of CMMI, define with the help of suitable examples : 5×4=20
 - (i) Specific Goals
 - (ii) Specific Practices
 - (iii) Generic Goals
 - (iv) Generic Practices.

Contd.

2. (a) Describe Software Life Cycle with the help of Classical Waterfall Model. 10

(b) What is Software Process Model? Describe one Evolutionary Process Model. 2+8=10

3. (a) What are the characteristics of a good SRS document? How an SRS document is organized? 6+4=10

(b) Describe: (i) Feasibility studies (ii) Requirements elicitation and analysis. 5+5=10

4. Describe the following software design concepts: 4×5=20

(i) Abstraction

(ii) Architecture

(iii) Patterns

(iv) Modularity

(v) Information Hiding.

5. (a) Describe Software Testing Strategy for Conventional Software Architecture. 10

(b) Describe the following testing strategies: 5+5=10

(i) Equivalence partitioning

(ii) Boundary-value analysis.

6. (a) What are the metrics for the analysis model? Describe function point metric. 3+7=10

(b) What is Software Reliability? Describe the Software Reliability Metrics. 1+9=10

7. Write short notes on: 5×4=20

(i) Software Risks

(ii) The ISO 9000

(iii) Control Structure Testing

(iv) Verification and Validation.