53 (CS 602) SWEN

2018

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.

- (a) What is 'Software Process'? With the help of suitable diagram, describe a software process framework. 2+8=10
 - (b) What is CMMI? What are the various capability levels? Describe. 2+8=10
- (a) What do you understand by 'Process Model'? Describe 'Spiral Model'.
 2+8=10

- (b) What is an SRS document? Describe Functional and Non-functional requirements. 2+8=10
- 3. (a) Why 'Feasibility Study' is needed? How requirements engineering process is achieved through execution of various distinct functions? 3+7=10
 - (b) Describe 'context model' and 'behavioral model' with the help of suitable examples. 5+5=10
- (a) What is provided by fundamental software design concept? Describe fundamental software design concepts. 1+9=10
 - (b) Why 'software architecture' is needed? Describe data-centered architecture and dataflow architecture. 2+4+4=10
- (a) Describe different types of views and diagrams supported in UML.
 - (b) Describe three golden rules for User interface design. Enlist user interface design steps. 6+4=10

- 6. (a) Write the uses of unit testing, black box testing, white box testing, integration testing and system testing.

 2×5=10
 - (b) What are the shortcomings of LOC (Lines of Code) as a metric for estimation of project size? Explain. How Function Point Metric is used?

 5+5=10
- 7. Write short notes on:

10+10=20

- (a) Software Risks
- (b) Software Reliability.

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