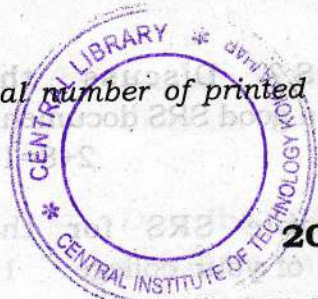


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53 (IT 605) SWEN

2019

**SOFTWARE ENGINEERING**

Paper : IT 605 (Back)

Full Marks : 100

Time : Three hours

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

Answer **any five** questions.

1. (a) With a clear diagram, discuss briefly the different phases of Iterative Waterfall model for software development. Write the advantages of Iterative Waterfall model. 10+4=14
- (b) Discuss the Spiral and Evolutionary model for software development. 6

Contd.

2. (a) What is SRS ? Discuss the characteristics of a good SRS document. 2+8=10

(b) Create a suitable SRS for the Examination cell of your college. 10

3. (a) Write the differences between software and hardware. 8

(b) "Software engineering : A layered technology". Explain. 5

(c) Discuss the various categories of software. 7

4. (a) Discuss Delphi Cost Estimation technique. 7

(b) Discuss the job responsibilities of Software Project Manager. 7

(c) Explain Abstraction and Decomposition techniques used in software development. 6

5. (a) Explain Cohesion and Coupling with suitable diagram. 5+5=10

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(b) Explain Class diagram and Sequence diagram in context of UML. 5+5=10

6. (a) Describe different types of views and diagrams supported in UML. 4+8=12

(b) Write the advantages of Function Point (FP) over Lines of Code (LOC). 8

7. Write short notes on the following : (any four) 5x4=20

(a) White-box testing and Black-box testing

(b) Alpha ( $\alpha$ ) testing and Beta ( $\beta$ ) testing

(c) COCOMO model

(d) Top-down and Bottom-up approach for integration testing

(e) Software Myths

(f) Software Crisis.

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