

Total number of printed pages-3

53 (CS 602) SWEN

2021

SOFTWARE ENGINEERING

Paper : CS 602

Full Marks : 100

Time : Three hours

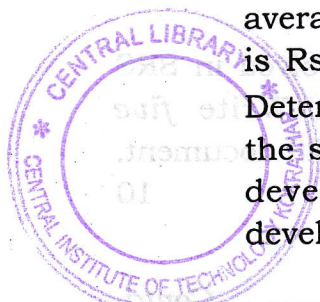
The figures in the margin indicate full marks for the questions.

Answer any five questions.

1. (a) Differentiate between Function point (FP) and Lines of Code (LoC) based cost estimation techniques. 10
- (b) Explain how Gantt Chart can be used for planning and controlling small projects with example. 10
2. (a) Explain various steps involved in SRS with suitable example. Write *five* characteristics of a good SRS document. 10

Contd.

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- (b) What is feasibility study ? Explain its types, contents and purpose. 10
3. (a) Compare and contrast Coupling and Cohesion with various types. 10
- (b) What is CMM ? Explain different levels and areas of CMMI. 10
4. (a) Explain Iterative Waterfall model with the help of diagram. 10
- (b) Discuss the benefits of using Prototyping model. 5
- (c) "Spiral model is a meta model." Explain. 5
5. Discuss various types of views and diagrams in UML in details. 20
6. (a) Assume the size of an organic type software product has been estimated to be 12,000 LOC. Assume that the average salary of software developers is Rs. 15,000 per month. Determine the effort required to develop the software product, the approximate development time and the cost to develop the product. 10



(b) What do you mean by Organic, Semi-detached and Embedded software type in COCOMO model ? Give examples.

10

7. Write short notes on the following : **(any four)** 5×4=20

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

(b) Unit testing and System testing

(c) Software myth

(d) RAD model and Spiral model

(e) Data flow diagram (DFD) and Data dictionary

(f) Software Risk Management.

