

**TDC Odd Semester Exam., 2020
held in July, 2021**

COMPUTER APPLICATION

(5th Semester)

Course No. : EBCA-501

(Software Engineering)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

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

Answer **five** questions, taking **one**
from each Unit

UNIT—I

1. (a) Why is the spiral model known as the meta model? Explain. 3
- (b) What are software myths? Explain four of them. 4

2. (a) Compare and contrast between the waterfall model and prototyping model. Which one do you think is better and why? Explain. 5+2=7

UNIT—II

3. (a) What is the main aim of software planning phase? 2
- (b) What are the various project estimation techniques? Explain. 5
4. (a) What are the various project cost estimation techniques? Explain them. 7

UNIT—III

5. (a) Draw an entity relationship diagram for the CDLC model. 4
- (b) What is software prototyping? How is it a part of requirement analysis? 1+2=3
6. What do you mean by structured analysis? Why is it important? What are the various requirements elicitation methods? 2+2+3=7

UNIT—IV

7. (a) What are the objectives of software design? 3
(b) What are the principles that guide software design? 4
8. Draw and explain with an example the concept of structured chart and pseudocode used in function-oriented design. 7

UNIT—V

9. (a) What is meant by test cases? 1
(b) Explain white-box and black-box testing. 6
10. (a) What are the objectives and principles of testing? 4
(b) Explain the working of validation testing. Why is it important? 3

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