

**2024/TDC (CBCS)/EVEN/SEM/
CACCC-602T/129**

TDC (CBCS) EVEN Semester Exam., 2024

COMPUTER APPLICATION

(6th Semester)

Course No. : CACCC-602T

(Software Engineering)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

UNIT—I

1. Answer any *two* of the following questions : $2 \times 2 = 4$

(a) What is software engineering?

(b) What are the characteristics of good quality software?

(c) Write two advantages of spiral model.

2. Explain waterfall model with advantages and disadvantages.

10

OR

3. What is software process framework?
Discuss the framework and umbrella activities.

(2)

UNIT—II

4. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Define UML.
- (b) Write the uses of Gantt chart.
- (c) What is project scheduling?

5. What do you mean by software requirement analysis? Describe the characteristics and components of software requirement specification (SRS). $2+8=10$

OR

6. Write short notes on the following : $5+5=10$

- (a) Flow-oriented modelling
- (b) Software project estimation

UNIT—III

7. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What is project risk?
- (b) What is risk projection?
- (c) What do you mean by software review?

8. What is risk identification? Describe the different methods of identifying risks. $2+8=10$

(3)

OR

9. (a) What is software quality assurance? Discuss the software quality assurance activities. 6
- (b) What are the different types of software review? Explain in brief. 4

UNIT—IV

10. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Write the objectives of software design.
- (b) What is cohesion?
- (c) What are the goals of software architecture?

11. Explain software design concepts in detail. 10

OR

12. Explain the concept of data design at—

- (a) architectural level;
- (b) component level. $5+5=10$

UNIT—V

13. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What is unit testing?
- (b) Write two advantages of black-box testing.
- (c) What do you mean by top-down integration?

(4)

14. What is white-box testing? What are the advantages and disadvantages of white-box testing? Write the differences between white-box and black-box testing. $2+3+5=10$

OR

15. Write short notes on the following : $5+5=10$
- (a) Validation testing
 - (b) Basis path testing

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