

**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.  $2+8=10$

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( Continued )

( 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?

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( Turn Over )

( 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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