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2023/TDC (CBCS)/EVEN/SEM/ CACCC-602T/070

TDC (CBCS) Even Semester Exam., 2023

COMPUTER APPLICATIONS

(6th Semester)

Course No.: CACCC-602T

(Software Engineering)

Full Marks: 70

Pass Marks: 28

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Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any ten of the following questions: 2×10=20

- 1. Why do we need software engineering?
- 2. List the components of software.
- **3.** What are the characteristics of software?
- 4. Write down the disadvantages of waterfall model.

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5.	What	is	the	software	equation?	Explain	its
	conce	pt.	Just	100		The ferman	

- 6. Why is spiral model known as meta model?
- 7. What is prototyping model?
- 8. How is prototyping model better than waterfall model?
- 9. What is SRS?

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- 10. What is data dictionary?
- 11. Why is design important?
- 12. Why is structured analysis important?
- 13. What do you mean by requirement analysis?
- 14. Why is testing important?
- 15. What is system testing?

SECTION-B

Answer any five of the following questions:

10×5=50

Explain the spiral model with proper diagram.

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3)

- Explain the advantages and disadvantages of waterfall model with proper diagram.
- 18. Draw E-R diagram of a college management system.
- 19. (a) Explain COCOMO model.
 - (b) Suppose a project was estimated to be 400 KLOC. Calculate the effort and development time for each of the three (organic, semidetached and embedded) models.
- 20. Explain the following requirement elicitation techniques: 3+3+4=10
 - (a) Interviews
 - (b) Brainstorming
 - (c) FAST
- **21.** Explain in detail software quality management.
- 22. What do you mean by structured analysis? Explain in detail.
- 23. Write technical notes on the following:

3+3+4=10

- (a) Bottom-up design
- (b) Top-down design
- (c) Hybrid design

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24.	Write short notes on the following: 2½×4=10							
	(a) Black box testing							
	(b) White box testing							
	(c) System testing							
	(d) Integration testing							
25.	What are the objectives and principles of							
a i	testing? Explain the working of validation testing. 6+4=10							
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