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IV Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE

Software Engineering

(CBCS Scheme)

Paper - BCA 405 T

Time : 3 Hours

Maximum Marks : 100

Instructions to Candidates :

- 1) Answer all Sections.

## SECTION - A

I. Answer any TEN questions.

(10×2=20)

- 1) Define software Engineering.
- 2) Name the two types of software product.
- 3) Define system Engineering.
- 4) What is system decommissioning?
- 5) Define SRS.
- 6) Mention two advantages of prototype model.
- 7) What is coupling?
- 8) Define verification and validation.
- 9) Define Test Case.
- 10) What is RGM (Reliability Growth Model)?
- 11) What is Stress Testing?
- 12) Define Quality Assurance.

## SECTION - B

II. Answer any Five questions.

(5×5=25)

- 13) Describe system Procurement process.
- 14) Explain waterfall model with a neat diagram.
- 15) Explain the IEEE structure of SRS.
- 16) Explain Prototype with a neat diagram.
- 17) Write a note on system Reliability Engineering.

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- 18) Compare function oriented design & object oriented design.
- 19) Describe different Requirement validation checks.
- 20) Differentiate between Black Box and White Box Testing.

### SECTION - C

- III. Answer any **Three** of the following. Each question carries **Fifteen** marks. (3×15=45)
- 21) a) Explain the different phases of SDLC.  
b) Explain the spiral model with neat diagram. (8+7)
  - 22) Explain the Requirement Engineering process. (15)
  - 23) a) What do you mean by function oriented design? Explain.  
b) Explain different styles of user system interaction. (8+7)
  - 24) a) Describe different types of cohesion.  
b) Explain software Reuse. (8+7)
  - 25) a) Explain the various types of Testing.  
b) Describe COCOMO model in detail. (7+8)

### SECTION - D

- IV. Answer any **One** of the following. Each question carries **Ten** marks. (1×10=10)
- 26) Explain System Engineering process with a neat diagram. (10)
  - 27) Write short note on the following : (5+5)
    - a) Feasibility study
    - b) Risk management.
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