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**BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)**  
**T.Y.B.Sc.(Computer Science) Sem-V : WINTER- 2022**  
**SUBJECT : SOFTWARE ENGINEERING**

Day : Wednesday

Time : 02:00 PM-05:00 PM

Date : 14-12-2022

**W-20118-2022**

Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Attempt **ANY TWO** of the following: **(12)**

- a) Explain the role of feedback in the functioning of the system.
- b) Explain the importance of system maintenance.
- c) What is Prototyping? What are the steps of Prototyping?

**Q.2** Attempt **ANY TWO** of the following: **(12)**

- a) What is software engineering? What are the primary goals of software engineering?
- b) Explain interpersonal skills required in system analyst.
- c) Explain system design phase.

**Q.3** Attempt **ANY TWO** of the following: **(12)**

- a) Explain the role of Database Administrator.
- b) Explain characteristics of software.
- c) Explain the importance of system analysis.

**Q.4** Attempt **ANY THREE** of the following: **(12)**

- a) Comment on “system analyst acts like a bridge between customer and software development team”.
- b) Differentiate between Transaction Processing System and Decision Support System.
- c) What are the phases of spiral model?
- d) Differentiate between structured interview and unstructured interview.

**Q.5** Attempt **ANY FOUR** of the following: **(12)**

- a) What is decision tree? Give the structure for decision tree.
- b) Give the guidelines for drawing Data Flow Diagrams.
- c) What do you mean by preliminary investigation?
- d) Write a short note on qualities of software.
- e) What is many to many relationship in Database? Give example for the same.
- f) Define the following:
  - i) Open system
  - ii) Closed system.

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