

**CDOE**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**B.C.A. Sem-IV : WINTER :- 2021**  
**SUBJECT: SOFTWARE ENGINEERING**

**Day : Tuesday**  
**Date 15-02-2022**

**W-5333-2021**

**Time : 02:00 PM-05:00 PM**  
**Max. Marks: 80**

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**N.B.**

- 1) Attempt any **FIVE** questions from Section –**I** and any **TWO** questions from Section – **II**
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Both Sections should be written in **SEPARATE** answer book.
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**SECTION - I**

- |            |                                                                                                |             |
|------------|------------------------------------------------------------------------------------------------|-------------|
| <b>Q.1</b> | What is software? Explain principles of Software Engineering.                                  | <b>(10)</b> |
| <b>Q.2</b> | Explain prototype model in detail.                                                             | <b>(10)</b> |
| <b>Q.3</b> | Why Software Development is a team work? Who are the members involved in software Development? | <b>(10)</b> |
| <b>Q.4</b> | What are qualities of system analyst?                                                          | <b>(10)</b> |
| <b>Q.5</b> | Explain traditional methods of requirement gathering.                                          | <b>(10)</b> |
| <b>Q.6</b> | What are the golden rules for User Interface Design?                                           | <b>(10)</b> |
| <b>Q.7</b> | Write short notes on any <b>TWO</b> of the following                                           | <b>(10)</b> |
|            | a) RAD model                                                                                   |             |
|            | b) Black Box testing                                                                           |             |
|            | c) Structured English                                                                          |             |

**SECTION - II**

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|-------------|---------------------------------------------------------------------|-------------|
| <b>Q.8</b>  | Design a system for Library Management System by using SDLC phases. | <b>(15)</b> |
| <b>Q.9</b>  | Draw DFD at various level for Library Management System.            | <b>(15)</b> |
| <b>Q.10</b> | Draw ERD and design tables for Library Management System.           | <b>(15)</b> |

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