

**M.C.A. SEMESTER-II (CBCS 2018) : SUMMER - 2019**  
**SUBJECT: SOFTWARE ENGINEERING**

Day: Monday  
Date: 22/04/2019

**S-2019-2156**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 60

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**N.B.:**

- 1) Q 4 from Section I is COMPULSORY.
  - 2) Answer ANY TWO questions from Q 1, 2, 3 in Section I.
  - 3) Answer ANY TWO questions from Q 5, 6, 7 in Section II.
  - 4) All questions CARRY EQUAL marks.
  - 5) Answers to Both the sections to be written in *SAME* answer books.
  - 6) Draw a labeled diagram WHEREVER necessary.
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**SECTION - I**

Q.1) Answer the following: (6 Marks X 2 = 12)

- a) What do you mean by Software Engineering? Elaborate on the objectives of Software engineering for software development process.
- b) Explain in detail Data flow diagram symbols with its use.

Q.2) Answer the following: (6 Marks X 2 = 12)

- a) What do you mean by Software Design Process? Explain Various design stages in brief.
- b) Discuss in details Quality Control activities for software development process.

Q.3) Explain the following: (6 Marks X 2 = 12)

- a) Explain in detail Validation Testing with example.
- b) Discuss concept of Forward Engineering

Q.4) Write short notes on the following: Attempt ANY THREE (4 Marks X 3 = 12)

- a) Limitation of programming language in software development process
- b) Requirement Analysis problems
- c) GUI Feature and Limitations
- d) Quality Policy and Implementation of Quality activities
- e) Stress Testing

**SECTION - II**

Q.5) Answer the following: (6 Marks X 2 = 12)

- a) Draw Dataflow diagrams for Departmental store Management System
- b) Explain with example elements of good design and its implementation for medical store management system.

Q.6) Answer the following: (6 Marks X 2 = 12)

- a) How to develop E-Commerce website with maximum quality factors in it? Explain all the measures of payment options for the same.
- b) Explain with example testing objectives for inventory control management system.

Q.7) Explain the following: (6 Marks X 2 = 12)

- a) What is reengineering? Explain software reengineering process model.
- b) Discuss importance of interface design and programming tools in CASE.

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