

**I.M.C.A. SEM-IV (2014 Course) CBCS : SUMMER - 2019**

**SUBJECT: SOFTWARE TESTING**

Day : **Saturday**  
Date : **20/04/2019**

**S-2019-2126**

Time : **10.00 AM TO 01.00 PM**  
Max. Marks : **100**

**N.B.:**

- 1) Attempt any **FOUR** questions from Section -I and any **TWO** questions from Section -II
- 2) Figures to the right indicate full marks.
- 3) Answers to both the sections should be written in **SAME** answer books.

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- Q.1** a) What is software? Give the various categories of software. (08)  
b) Discuss role of each member involved in software development. (07)
- Q.2** a) What is testing? Explain various goals and characteristics of it. (08)  
b) Why testing is necessary during coding stage? Explain in brief. (07)
- Q.3** a) Explain software testing life cycle. (08)  
b) What are the principles of verification and validation? (07)
- Q.4** a) Distinguish between testing and debugging. (08)  
b) What is unit testing? Why is it necessary? (07)
- Q.5** What is Risk? Describe different types of it. (15)
- Q.6** a) Give the debugging strategies in detail. (08)  
b) What is client server architecture? Give the need of it. (07)
- Q.7** Write short notes on any **TWO** of the following: (15)  
a) Testing patterns  
b) Testing process  
c) Software development life cycle

**SECTION-II**

- Q.8** Describe the integration testing in detail. (20)
- Q.9** Explain black box testing methods with their merits and demerits. (20)
- Q.10** Describe the validation testing in detail. (20)

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