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BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)

B.C.A. Sem-IV : WINTER- 2022
SUBJECT : SOFTWARE TESTING

Day : Saturday

Time : 02:00 PM-05:00 PM

Date : 17-12-2022

W-11044-2022

Max. Marks : **100**

N. B. :

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

- Q. 1** a) Define software. What are its characteristics? (08)
b) Discuss various components of software. (07)
- Q. 2** a) What is testing? Give the importance of it. (08)
b) Explain testing during planning phase. (07)
- Q. 3** Differentiate between: (15)
a) Verification and Validation
b) Defect and Bug
c) White box testing and Black box testing
- Q. 4** What do you mean by Integration testing? Explain it in brief. (15)
- Q. 5** Discuss in brief the debugging process and the strategies. (15)
- Q. 6** Explain the following terms. (15)
a) Software Review
b) Software Inspection
c) Walkthrough
- Q. 7** Write short notes on **ANY TWO** of following: (15)
a) Waterfall model
b) Test Cases
c) Alpha and Beta testing

SECTION - II

- Q. 8** What is real time system? Explain testing for real time system in detail. (20)
- Q. 9** What is the need of system testing? Explain various types of system testing. (20)
- Q. 10** Define Risk? Mention the characteristics of Risk. Discuss the role of testing in risk management. (20)