

BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)
B.C.A. Sem-IV : WINTER : 2021
SUBJECT: SOFTWARE TESTING

Day : Monday
Date : 17-01-2022

W-11044-2021

Time : 02:00 PM-05:00 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 book.
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SECTION - I

- Q.1** What is software development life cycle? Explain in brief phases of SDLC. **(15)**
- Q.2** What is testing? Explain the testing during planning and design stage. **(15)**
- Q.3** Discuss in detail the various techniques of verification. **(15)**
- Q.4** a) Describe in detail software testing process. **(08)**
b) Differentiate between testing and debugging. **(07)**
- Q.5** a) What is Unit testing? Discuss in detail unit testing. **(08)**
b) Explain in brief the concept of alpha and beta testing. **(07)**
- Q.6** What is the Risk? What are various types of Risk? **(15)**
- Q.7** Write short notes on any **TWO**: **(15)**
a) Black Box Testing
b) Software components
c) Graph based Testing

SECTION - II

- Q.8** What is Integration testing? Explain in detail types of integration testing. **(20)**
- Q.9** What are Real time systems? Discuss in detail Testing for real-time systems. **(20)**
- Q.10** Write a detailed test plan for an online shopping application. Customers can keep accounts with the application in order to make frequent ordering convenient. Customers can sign-in and order for products listed. The application generates bill for the order and the customer can pay either in card (cashless)/ cash-on-delivery mode. The application has provision for customers to review the products and can share their experience related to the services provided. **(20)**

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