

OCT/NOV-2021

Total No. of Questions : 7]

SEAT No. :

PA-2563

[Total No. of Pages : 1

[5948]-303

M.C.A.

**IT - 33 : SOFTWARE TESTING AND QUALITY ASSURANCE  
(2020 Pattern) (Semester - III)**

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Q.1 and Q.7 are compulsory.
- 2) Solve any four questions from Q.2 to Q.6.

- Q1)** a) Write a detailed test plan for university result declaration system, which provides the facility to view students result (Sem/year) wise, system should have facility to apply for rechecking/re-evaluation with payment. Your plan should include the desired test document. [8]  
b) Design suitable test cases for above application. [4]
- Q2)** Explain building blocks of SQA and SQA activities. [8]
- Q3)** An OTP number which contains only six digits, less or more than six digits will not accepted and the application will redirect the user to the error page. Using Equivalence partitioning write valid and invalid test cases. [8]
- Q4)** Explain different types of computer Aided software Testing Tools (CAST). What are the benefits in using testing tools. [8]
- Q5)** What are the levels of Testing? Explain in detail. [8]
- Q6)** Explain in detail different types of reviews. [8]
- Q7)** Write short notes (any two) [6]  
a) Difference between QA and QC  
b) Selenium  
c) Project Risk  
d) Product Risk



MAR APR 2023

Total No. of Questions : 5]

SEAT No. :

P3350

[6027] 33

[Total No. of Pages : 2

M.C.A. - II (Management)

IT - 33 : Software Testing and Quality Assurance  
(2020 Pattern) (Semester - III)



Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) a) Write a detailed test plan for online grocery ordering mobile application. The application functionalities are registration, login, check items, price, delivery time etc. [6]

b) Write the test cases for above application. [4]

Q2) a) Write the test cases for testing username and password to use email account. [5]

b) Write data flow control analysis for following. [5]

- i) var i, x, sum
- ii) i = 0
- iii) sum = 0
- iv) Input (x)
- v) while (x != 0)
- vi) sum = sum + x
- vii) i = i + 1
- viii) Input x
- ix) End while
- x) print (sum)

Q3) What do you mean by software quality assurance? Explain SQA activities. [10]

OR

Explain s/w quality factors and software quality metrics.

[10]

P.T.O.

Q4) a) Explain verification and validation in software testing. [5]

b) What are levels of testing? Explain in detail. [5]

OR

a) What is Test Driven Development (TDD)? How TDD is performed? [5]

b) Compare Black Box and White Box testing. [5]

Q5) Write short notes on (any two): [10]

- a) Project Risk
- b) Product Risk
- c) Selenium
- d) Appium
- e) Incident Management

