MAR-April 2023

[6027]-33

M.C.A. - II (Management)
IT - 33 : Software Testing and Quality Assurance
(2020 Pattern) (Semester - III)
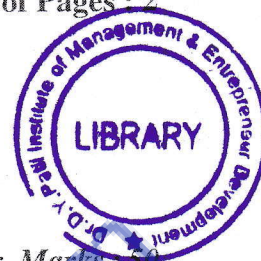
Time : 2½ Hours]

[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 grossary 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