

Total No. of Questions : 5]

SEAT No. :

P3350

[Total No. of Pages : 2

[60271-33

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
