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S.Y. M.C.A. (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)   *Each question carry equal marks.*

3)   *Figures to the right indicate full marks.*

Q1) Write a detail test plan for online shopping on Amazon application. User can register through his/her valid email and mobile no. Application will provide the login credentials to user. User can select the items from list and add to cart. Finally user can check the cart and go for payment with different available options. Once the payment done user get the SMS regarding the successful order placed and same can be displayed on screen. **[10]**

OR

Write a detailed test cases for a multiplex theater who had designed its computerized system to handle four screens :

a)   Tickets availability of movies running on different screens.

b)   Ticket rates and available classes.

c)   Online booking of tickets by customer through online payment using third party gateways like ICICI, HDFC and SBI etc.

Q2) a)   Using Equivalence partitioning, write valid & invalid test case for an OTP number which contains only six digits, less or more than six digits will not be accepted. **[5]**

     b)   Explain different reliability models. **[5]**

OR

     c)   Explain different types of Computer Aided Software Testing Tools (CAST). **[5]**

     d)   Explain different types of reviews. **[5]**

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Q3) a) Define SQA. Explain building blocks of SQA. **[5]**

b) Explain Software Testing Life Cycle. **[5]**

OR

c) Define Verification & Validation. Explain V-model & W-model. **[5]**

d) Explain different levels of testing. **[5]**

Q4) a) What is Test Driven Development (TDD)? **[5]**

b) Explain non-functional testing types. **[5]**

OR

c) Write down the difference between data Flow analysis & control Flow analysis. **[5]**

d) Explain McCabe's Cyclomatic Complexity Metric. **[5]**

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

a) Incident Management

b) Defect life cycle

c) J Meter

d) Compare black box & white box testing

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