Program: BSc(Computer Science)   **Semester: VI**   **SET: A**
Program (Specific): (Computer Science)   **Course Type: DSEC-II**
Class: TYBSc (Computer Science)   **Max.Marks: 35**
Name of the Course: Software Testing Automation Tools
Course Code: 24CS3610   **Time: 2Hr**
Paper:I

Instructions to the candidate:

1) *There are 4 sections in the question paper. Write each section on separate page.*
2) *All Sections are compulsory.*
3) *Figures to the right indicate full marks.*
4) *Draw a well labeled diagram wherever necessary.*

SECTION: A

Q1) Answer the following questions.   **[5 x 1 = 5]**

I)   Which of the following is not another name of white box testing ?
  a) Clear box testing   c) Behavioral Testing
  b) Glass box testing   d) None of above.

II)   Which of the following testing is type of white-box testing?
  a) Specification testing   c) Structural testing
  b) Design coverage testing   d) None of above.

III)   Which of the following is not part of the Test Document?
  a) Test Case   b) Test Strategy
  b) Requirements Traceability Matrix (RTM)   d) Project Initiation Note (PIN)

IV)   Which of the following tool is not an open-source tool?
  a) Cucumber   c) Selenium
  b) Bugzilla   d) BugHost

V)   Which software is used for design and builds test cases?
  a) MS Word   c) MS Excel
  b) MS Access   d) MS Powerpoint

Q2) Answer any 4 of the following in one sentence.   **[4 x 1 = 4]**

I)   Define error and defect.
II)   State Code Coverage Testing.
III)   Define path coverage.
IV)   What is exit criteria.?
V)   Enlist types of defect.
VI)   Describe Manual Testing.

SECTION: B

Q3) Answer any 4 of the following   **[4 x 2 = 8]**

I)   Explain automation testing tools : i] Selenium ii] Appium
II)   Explain defect life cycle.
III)   Illustrate decision coverage testing.
IV)   Discuss the test case design techniques classification.
V)   Quote any 2 bug tracking tool.
VI)   For the below code, consider any one test case and find out statement coverage.

```
input (int x , int y) {
        sum = x + y;
        if (sum > 0)
                printf ("This is positive");
        else
                printf ("This is negative") ;
}
```

SECTION: C

Q4) Answer any 4 of the following.   **[4 x 2 = 8]**

I)   Explain branch coverage testing with 2 advantages.
II)   Describe any 2 positive and negative test cases for ATM Machine.
III)   Write down all parameters in test summary report template.
IV)   Explain any 2 type of testing tools.
V)   Distinguish between Specification and Structural test case design techniques.
VI)   Sketch Test plan template used in Software testing and explain any 4 fields.

SECTION: D

Q5) Answer any 2 of the following   **[5 x 2 = 10]**

I)   Illustrate Loop coverage testing and types of loop testing.
II)   Design test cases for an application "Login Page Activity"
III)   Explain defect classification.

IV)   Apply decision coverage testing for the following code by considering same test cases:
```
        example (int x)
        {
                if (x<20)
                        print (" x< 20");
                else
                        print (" x>20");
        }
```