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SEAT No. :

PA-1037

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**T.Y. B.Sc. (Computer Science) (Semester - VI)**  
**CS-3610 : Software Testing and Tools (Paper - VII)**  
**(2019 Pattern)**

*Time : 2 Hours]*

*[Max. Marks : 35*

*Instructions to the candidates:*

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

**Q1)** Attempt any eight of the following (out of Ten) :

**[8 × 1 = 8]**

- a) Define Test Automation.
- b) What is test report?
- c) What is static testing?
- d) What is error?
- e) Write any two software defect by nature.
- f) Define Smoke testing.
- g) Test suites are used to group similar test cases. State TRUE or FALSE.
- h) What is Cyclomatic complexity?
- i) How many types of testing tools?
- j) Define code coverage in white box testing.

**Q2)** Attempt any four of the following (out of five) :

**[4 × 2 = 8]**

- a) List the goals of loop coverage testing.
- b) Define test criteria and explain its types.
- c) List any two web based open source automation software testing tools.
- d) Define priority defect and its different levels.
- e) Write any two features of Bugzilla tool.

**P.T.O.**

**Q3)** Attempt any two of the following (out of three) : **[2 × 4 = 8]**

- a) What are different types of loop testing? Explain in details.
- b) Explain IEEE Std.Test Incident report in details.
- c) Develop source code to check if number is prime or not in C Programming lang.
  - i) Draw the control flow graph.
  - ii) Calculate Cyclomatic complexity for all methods.
  - iii) List all independent path test cases for independent paths.

**Q4)** Attempt any two of the following (out of Three) : **[2 × 4 = 8]**

- a) Create case study for verify the functionality of amazon login page.
- b) Consider following code and apply decision coverage testing create use cases

Check-class(int x)

```
{  
    If(x>80)  
        Print("O")  
    else  
        Print("Class A")  
}
```

Test case 1: x >80 and Test case 2: x <80

- c) Explain STLC with its phases.

**Q5)** Attempt any one of the following (out of Two) : **[1 × 3 = 3]**

- a) Write short note on Classification of Defects.
- b) Give any three features of winRunner and selenium.

