M.C.A. (Sem - IV)
Software Testing
(May-2017)

Q.P. Code :06118

[Time: 3 Hours] **[Marks:100]**

Please check whether you have got the right question paper.

N.B:
1. Q.1 is Compulsory.
2. Solve any 4 questions from Q2. To Q7.

Q.1 A Explain the phases of the fundamental test process. 10

B Explain the equivalence class partition technique with examples? 10

Q.2 A What is static analysis? Explain the techniques to do Static analysis? 10

B What are the anomalies that can be found during Data flow Analysis? For the given code, tell the anomalies that it has. 10

```
Void exchange (int&Min, int&Max) {
  Int Help;
        If (Min>Max){
         Max = Help;
         Max = Min;
         Help = Min;
         }}
```

Q.3 A What is the difference between equivalence class partitioning and boundary value technique? 10

B Christmas Bonus of the employee depending on affiliation to the company. Employee receive a equal to 50% 10

of their monthly income if they have been working for the company for more than 3 years, employee who have been employed for more than 5 years receive a 75% bonus and those with more than 8 years of employment are awarded 100% bonus. Design test cases by using Equivalence class and Boundary value analysis.

Q.4 A Explain Cause Effect Graph and decision table technique with suitable example. 10

B Explain statement coverage, branch coverage and path coverage with suitable examples. 10

Q.5 A Discuss four typical approaches to determine a test strategy. 10

B What data should be contained in an incident report? How incidents are classified? What is the purpose of an incident status model? 10

Q.6 A Describe the principle of data driven testing and what steps should be taken when selecting a test tool? 10

B How the OO-testing is different from conventional testing and explain with suitable examples? 10

Q.7 Write short notes on any four: 20

A. Agile Methodology
B. W-Model
C. Psychology of Testing
D. V-Model
E. Testing Vs Debugging
