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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course Name:** | **Software Testing** | **Course Code:** | **CS 497** |
| **Program:** | **BS (CS)** | **Semester:** | **Spring 2018** |
| **Duration:** | **60 Minutes** | **Total Marks:** | **20** |
| **Paper Date:** | **28-Feb-2018** | **Weight** | **15** |
| **Section:** | **ALL** | **Page(s):** | **3** |
| **Exam Type:** | **Mid1** |  |  |
| **Student : Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | |
|  | **Answer in given space. Rough sheets are not allowed.** | | | |

**Question #1:[10]**

The basic cost of an insurance premium for drivers is Rs.5000, however, this premium can increase or decrease depending on three factors: their age, their gender and their marital status. Drivers that are below the age of 25, male and single face an additional premium increase of Rs. 1500. If a driver outside of this bracket is married or female their premium reduces by Rs. 200, and if there are aged between 46 and 65 inclusive, their premium goes down by RS.100.

Perform following Black Box Software testing methods:

1. Equivalence Partitioning
2. Boundary Value Analysis

**Question #2:**Consider the following java code for above scenario, perform junit testing to test the code. [Only consider boundary value analysis while performing testing.] **[10]**

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| (1) int liability (int age, char sex, boolean married) {  (2) Premium=500;  (3) If ((age<25) && (sex==male) && (!married)) {  (4) Premium += 1500;  (5) } else {  (6) If (married || sex==female) {  (7) Premium -= 200  (8) }  (9) If ((age>45) && (age<65) {  (10) Premium -= 100;  (11) }  (12) return Premium;  (13) } |