Seat No:_____ **Enrollment No:_____**

PARUL UNIVERSITY

FACULTY OF IT & COMPUTER SCIENCE

BCA/Parul Institute Of Computer Application

BCA 2017–18 Mid Semester Examination

Semester: 06 **Date: 27/3/18**

Subject Code: 05101382 **Time: 2hr**

Subject Name: Software Testing **Total Marks: 40**

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Answer the following.

(a) Define the following. [3]

1. Software Testing
2. Object Oriented Integration Testing
3. Test Case

(b) Do as directed. [7]

1 The goal of Functional testing is to find defects in software product and its documenting, Determine if software meets its requirements, and to take an objective decision about possibility of software product delivery to customer. **[True/False]**

2 Smoke testing is one of the shortest testing methods of software testing. **[True/False]**

3 _____ testing attempts to show that a given module of an application does not do what it is supposed to do.

a. Positive b. Negative c. Smoke d. Sanity

4 A _____ represents the methods used in the program module in a data flow graph.

5 Incremental Testing process is carried out by using dummy programs called _____.

6 State the Objective of Path testing.

7 List the different strategies of integration testing.

Q.2 Answer the following.

(a) Answer the following. [4]

1. State advantages of using Decision Tables.

2. Explain any two strategies defined for creation of Test cases for any testing.

(b) Answer the following questions with suitable examples. **[6]**

1 What is Unit testing, System testing and Integration testing?

2 Write a note on Performance Testing.

Q.3 Attempt any TWO.

1 Differentiate between Functional and Non-Functional Testing [5]

2 Write a note on Object Oriented Class Testing. [5]

3 List down all the defined and the used data objects used in the below given code. Also draw the Data Flow graph for the same. [5]

```
read (x, y);
z = x + 2;
if (z < y)
w = x + 1;
else
y = y + 1;
print (x, y, w, z);
```

Q.4 Answer the following.

(a) Compare Blackbox, WhiteBox and Grey box testing. [5]

(b) Write a note on Data Flow Testing. [5]

OR

(b) Explain BVC with its advantages and Limitations. [5]

All the Best