**BRAHMA VALLEY COLLEGE OF TECHNICAL EDUCATION**

**Preliminary Exam**

# Course Name: Computer/ Information Technology Group Semester: 6(E) Marks: 100

Subject: **STG(12258)** Date: - **12/3/2014** Time: **9.30 am To 12.30 pm**

**Q.1.a) Attempt any FIVE of the following: MARKS 20**

1. Describe the waterfall model of SDLC.
2. Explain boundary condition with example.
3. Explain White box testing with example.
4. Explain data sharing compatibility.
5. What makes a good user interface?
6. What are the goals of test planning?
7. What is a gray box testing?

**Q.2 Attempt any FOUR of the following: MARKS 16**

1. What are bugs? List software failure terms & explain any four.
2. Explain dynamic testing.
3. What is equivalence partitioning?
4. What is beta testing? What are advantages of beta testing?
5. List the benefits of automation.
6. Explain essential elements of formal review.

**Q.3. Attempt any FOUR of the following:**  **MARKS 16**

1. Give eight low level specification techniques
2. Explain forward & backward compatibility.
3. Explain translation issues.
4. Write any four website problems.
5. Explain localization issues.
6. Describe the role of the intergroup responsibilities in test documentation.

**Q.4. Attempt any TWO of the following: MARKS 16**

1. Explain Spiral model in SDLC.
2. Explain State testing with state transition diagram.
3. What action should be performed to apply stress and load testing on your software.

**Q.5. Attempt any TWO of the following: MARKS 16**

1. Draw and Explain bugs life cycle.
2. Explain a high level review of specification
3. Explain: 1) program statement & line coverage. 2) Branch coverage. 3) condition coverage

**Q.6. Attempt any FOUR of the following: MARKS 16**

1) Explain Capability Maturity Model.

2) Differentiate between quality control and quality assurance.

3) Write note on ISO 9000 standard.

4) Explain with example unit testing.

5) Differentiate between static white box testing and dynamic white box testing.

6) List all traits of good software tester.