

## Scheme- I

### Sample Question Paper

**Program Name** : Diploma in Computer Engineering Group

**Program Code** : CO / CM /CW

**Semester** : Fifth

**Course Title** : Software Testing

**Marks** : 70

**22518**

**Time: 3 Hrs.**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1) Attempt any FIVE of the following.**

**10 Marks**

- a) Define software Quality Assurance and software Quality Control.
- b) State any two example of Security testing.
- c) Enlist any four the benefits of Test Plan.
- d) State any four basic principles of writing good test cases.
- e) Enlist different types of defect classification.
- f) Write any four limitations of Manual Testing.
- g) Define following terms-Failure, Error, Defect and Bug.

#### **Q.2) Attempt any THREE of the following.**

**12 Marks**

- a) Describe the roles and responsibilities of a Test Leader.
- b) Differentiate between Drivers and Stub (any four points).
- c) Describe different types of attributes of a Test Plan.
- d) State the Advantages and Disadvantages of using testing tools.

#### **Q.3) Attempt any THREE of the following.**

**12 Marks**

- a) State process of Black box testing with labeled diagram? List any four techniques of black box testing.
- b) Describe the Test Case Specification and list its parameters.
- c) Draw Defect Management Process. State the working of each phase.

- d) State any four points of comparison between Static analysis tools and Dynamic analysis tools.

**Q.4) Attempt any THREE of the following.**

**12 Marks**

- a) Describe the Integration Testing.
- b) State the testing approaches that are considered during Client- Server Testing.
- c) Explain the Test Management with Test Infrastructure management and Test People Management.
- d) Enlist and describe criteria for Selecting Testing Tools with its description.
- e) Explain following concepts related to Web Application :
  - (1) Load testing
  - (2) Stress testing.

**Q.5) Attempt any TWO of the following.**

**12 Marks**

- a) Design test cases for the data filed from Admission form of your institute (Data filed are Name, SSC percentage, Adhar no, Address, mobile no)
- b) With respect to GUI testing write the test cases for Amazon login form.
- c) Elaborate the concept of Software Metrics? Describe Product and Process metrics with suitable example.

**Q.6) Attempt any TWO of the following.**

**12 Marks**

- a) Design test cases for MSBTE Online Exam form filling.(any valid six test cases)
- b) Prepare a Test Plan along with the Test Cases for the MS Word option 'Save As'. Test Cases should be at least six.
- c) Design any three test cases for railway reservation form and prepare defect report of it.

## Scheme- I

### Sample Test Paper - I

**Program Name** : Diploma in Computer Engineering Group  
**Program Code** : CO / CM /CW  
**Semester** : Fifth  
**Course Title** : Software Testing  
**Marks** : 20

**22518**

**Time: 1 Hour**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1 Attempt any FOUR.**

**08 Marks**

- a) List the objectives of software testing.
- b) Design any four boundary value test cases for textbox which accept numbers from 1-999.
- c) Define Static testing and Dynamic testing.
- d) Describe the need of stub and driver in Unit testing?
- e) Define Load testing and Stress testing.
- f) Define Unit Testing?

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a) Differentiate between Verification and Validation.
- b) Apply equivalence partitioning on application which display result on basis of percentage obtained in exam.
- c) Explain Top Down integration testing.
- d) With respect to GUI testing, write any four test cases for Flipchart login form.
- e) Explain need of Regression Testing.

## Scheme- I

### Sample Test Paper - II

**Program Name** : Diploma in Computer Engineering Group  
**Program Code** : CO / CM /CW  
**Semester** : Fifth  
**Course Title** : Software Testing  
**Marks** : 20

**22518**

**Time: 1 Hour**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1 Attempt any FOUR.**

**08 Marks**

- a) Define Test Plan?
- b) List basic steps of Fundamental test Process.
- c) Enlist different types of defect classification.
- d) State five general activities of defect prevention.
- e) List the benefits of automation testing.
- f) Define software matrix and measurement.

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a) Prepare test plan along with test cases for notepad option copy-paste.
- b) Design any four Test cases for User Login Form.
- c) Design any two test cases for simple calculator application and prepare defect report.
- d) Differentiate between manual testing & automation testing.
- e) Enlist factors considered for selecting a testing tool for test automation.