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Instructions – (1) All Questions are *Compulsory*.

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) **Attempt any THREE of the following:**   12

(i)   List and describe any four skills of software tester.

(ii) Explain decision table with suitable example.

(iii) Describe how drivers and stubs can be used in unit testing with neat diagrams.

(iv) Describe two types of test reports.

b) **Attempt any ONE of the following:**   6

(i)   What are sanity testing and smoke testing. Describe.

(ii) Describe the requirement defects and coding defects in details.

Marks

2. **Attempt any <u>FOUR</u> of the following:** 16

a) What factors shall be considered while selecting resource requirements?

b) What are the advantages and disadvantages of using automated tools for testing? List any two each.

c) What is load testing and stress testing? Describe with respect to system testing.

d) List what are the different guidelines to be followed while selecting dynamic test tools.

e) Draw labelled diagram of defect management process. List any two characteristics of defect management process.

f) Why boundary value analysis is required? Give example.

3. **Attempt any <u>FOUR</u> of the following:** 16

a) Describe graph based testing with appropriate diagram.

b) Describe Bi-directional/sandwitch integration testing with neat diagram.

c) Write four test cases to test sign-in form of gmail account.

d) Compare alpha testing and beta testing. (Any four differences).

e) Explain three types of product metrics.

4. a) **Attempt any <u>THREE</u> of the following:** 12

(i) Describe structural walk through under static testing.

(ii) Describe any four limitations of manual testing.

(iii) Explain the defect template with its attributes.

(iv) Explain any two internal standards in test management.

b) **Attempt any <u>ONE</u> of the following:** 6

(i) Explain V model with diagram.

(ii) What is equivalence partitioning? Give example.

Marks

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

a) Write the entity, purpose and attributes of following elements of test infrastructure management:

(i) A Test Case Database (TCDB)

(ii) A Defect Repository

b) What is code coverage testing? Explain the following types of coverage:

(i) Path coverage

(ii) Condition coverage

c) List any four features of client-server application. Explain any four testing approaches of client - server testing.

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

a) List the different techniques to detect defects. Describe any two of them.

b) Differentiate between quality assurance and quality control. (Any four points)

c) What are the different points to be noted in reporting defects?

d) What are the things that test case specification shall identify?

e) Describe any four testing approaches of web application.

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