N. B.: (1) All questions are compulsory. (2) Make suitable assumptions wherever necessary and state the assumptions made. (3) Answers to the same question must be written together. (4) Numbers to the **right** indicate **marks**. (5) Draw neat labelled diagrams wherever necessary. (6) Use of **Non-programmable** calculators is **allowed**. 1.Attempt any two of the following 10 a. State phases of Fundamental Test Process. Explain Planning and Control. b. What is Quality? Explain Quality Viewpoints for producing and buying software. c. Write a note on Psychology of Testing d. State Principles of software testing. Explain in detail any two. 2.Attempt any two of the following 10 a. Explain Lifecycle Testing for Iterative model & RAD model. b. What is Integration Testing? List and explain the approaches Integration Testing. c. Explain Triggers for Maintenance Testing. d. Explain Conformance directed Testing Levels. 3.Attempt any two of the following 10 a. List down the phases of Formal Reviews. Explain any two phases in detail. b. Explain the characteristics and objectives of :-1. Walkthrough 2. Inspection 3. Audit 4. Technical review 5. Peer Review c. Explain the factors for successful performance of Reviews. d. List down the types of Static Analysis by Tools. Explain them. 1. Coding Standards 2. Code Metrics 3. Code Structure 4.Attempt any two of the following 10 a. Explain, how is Equivalence Class Partitioning different from BVA? b. Explain Experience based testing and its types. c. Explain State Transition based testing with an example. d. Define Cyclomatic Complexity: Draw a Program Graph to Graphically represent the given Code Dim i as Integer Dim n as Integer I=1n=1

while(i < -5)

```
n= n*i
i= i+ 1
}
output n
```

Also find the Cyclomatic Complexity of the Program Graph.

5.Attempt any two of the following

10

- a. What is Risk Based Testing? How is product risk different from project risk?
- b. Explain incident report lifecycle with the helpof a diagram.
- c. What is test control and explain configuration management?
- d. Explain test organization. What are the factors affecting test efforts?

6.Attempt any two of the following

10

- a. What are the benefits and risks of using tools? Explain.
- b. Explain dynamic analysis tools with performance testing.
- c. State features of test design tools and data preparation tools.
- d. List down the tool support for management testing. Explain any two.

7.Attempt any three of the following



- a. Define the terms Risk, Error, Defect, Failure and Quality.
- b. Explain V- Model of testing? Explain its advantages.
- c. What is Static Testing? Explain the importance of Static Testing.
- d. Justify "100% Condition Coverage implies 100% Decision Coverage" giving an example.
- e. Explain various types of test strategies? How to pick up the best type of strategies for success?
- f. Describe any two tools in static testing. Review Process Support Tools.