# SOFTWARE TESTING (211563)

# Important Topics to Lover for Exam .-

### Modules:

1. Definations of Error, Fault, Failure, Incident, Test, (10) Relaibility, Usability, Software Testing.

2. Different measures in Software quality. (4)

Functional Vs Structural Testing & Debugging process

.5. Test generation stratergies (b)

6. What is Test Metric? Various test metrics also stated

Flement & Irrepection of Static Testing 15/10)

8: Triangle Problem - Traditional Implement - Flowthant LStrutured Implemt - Diagram

9. Next Date Function - Pseudocode - 10

10 a) Commission Problem

b) Currency Converter

4) Wind shield Wiper controller.

#### Module 2:

14-6)

1. Boundary Value Testing, analysis, types & limitations

2° BVA — Triangle Problem, Next Date, Commission post

3. Equivalence class Testing, defor, types

4. ECT - Triangle problem, Next Date, Commission pos

9. Decision Table, technique

6. DT - Toiangle problem, Next Date, Commissioning

Fault based testing, Assumptions

### Module 3:

1. Defination of Path Testing-Triangle prob - Program graph.

2. DD Path - Triangle prob (10)

3. Test Coverage Metrics & Metric based Testing (5)

y Basis path teeting (5)

5) Essential complexity (5)

6) Dataflow testing - Define / Use testing - Commism prob L Dupath Calculator - 1 (0)

J. Slice based testing - committen prob (10)

g. Note on the guidelines & observation about dataflow test

## Module 4:

1. Alternative life cycles (10)

2. Context diag, Level 1 Dataylow diag - SATM System.

3. Decomposition tree for SATM System 10)

4. Unit Call graph for SATM - Decomposition based integration using graph based approach (10)

S. Callgraph based Internation - Neighbourhood 10)

6. MM Path - SATM System - MM path complexity 10)

## Module 5.

- 1) Functional straturgies for Thread testing considering all relevant parameters.
- 2) Dynamic interaction en Multiple processors.
- 3)\_EDPN. Aug consider Thread structures L'explain Interactor, Decomposition, Determinism
- 4) Static Interaction in Multiple vs striple processor
- 5) client server Testing
- Interaction Terting Faxonomy of interaction
- FI Struttural Stratugies for Thread Testing.

