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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech III Year II Semester Regular & Supplementary Examinations October-2020
SOFTWARE TESTING

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

- 1 a What are the various Testing Principles? 4M
- b What is predicate, compound predicate and path predicate? 8M

OR

- 2 a Draw Life cycle of a Bug and list out the different types of test bugs? 8M
- b Differentiate between control flow graph and flowchart? 4M

UNIT-II

- 3 a What are the applications of data flow testing? 6M
- b Write applications of TFT and DFT? 6M

OR

- 4 a What is transaction? Detail discussion about testing blindness? 8M
- b Differentiate Dynamic Vs. Static Anomaly detection? 4M

UNIT-III

- 5 Explain about domain and interface testing in detail? 12M

OR

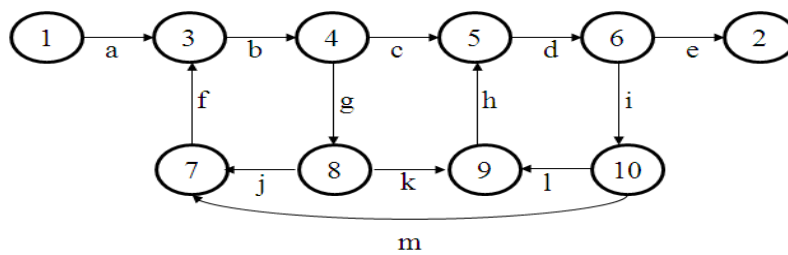
- 6 a Write about systematic boundaries with diagram? 6M
- b Explain about Closure Compatibility and Span Compatibility. 6M

UNIT-IV

- 7 a What is Path Products and Path Sums, discuss with an example for each 6M
- b Minimize the function $F(A,B,C,D) = \sum m(0,1,2,5,8,9,10)$ using K-Map 6M

OR

- 8 Explain the steps in Node Reduction Procedure and get a Path Expression from the following flow graph 12M



UNIT-V

- 9 a Explain about State testing and its principle. 6M
- b Write in detail about Relations and its properties? 6M

OR

- 10 Explain about Matrix of Graph with a 4X4 and reduce it. 12M

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