R15

Code No: 126VR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, May - 2019
SOFTWARE TESTING METHODOLOGIES
(Common to CSE, IT)

Time: 3 hours **Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.a)	List the goals of software testing.	[2]
b)	What is path sensitization?	[3]
c)	Explain various loops with an example.	[2]
d)	What is meant by testing? Write about any two application of data flow testing	[3]
e)	Define nice and ugly domains.	[2]
f)	Define domain testing with example.	[3]
g)	What is regular expression?	[2]
h)	What is logic based testing?	[3]
i)	What are testability tips?	[2]
j)	List the different types of tools required for test planning.	[3]

PART - B

(50 Marks)

2.a) Discuss about Myths related software testing and its facts.
b) Explain about life cycle of Bug. [5+5]

OR

3.a) What is meant by integration testing and what are the goals of it.
b) What are control and sequence bugs? How they can be caught? [5+5]

4. Discuss in detail data - flow testing strategies. [10]

OR

5.a) Compare data flow and path flow testing strategies.
b) Distinguish between Control Flow and Transaction flow. [5+5]

6.a) Discuss with example the equal - span range/ Domain compatibility bugs
b) Discuss
i) Non linear domain boundaries
ii) Complete domain boundaries. [5+5]

OR

7. State and explain various restrictions at domain testing processes. [10]

8. Explain Regular Expressions and Flow Anomaly detection. [10]

OR

9. Explain path expression with examples. [10]

10.a) Categorize various testing tools necessary for testing.
b) What are the using of win-runner? [5+5]

OR

11.a) What are the principles of state testing. Discuss advantages and disadvantages.
b) Explain about node reduction algorithm. [5+5]

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