

Roll No.

Total Pages : 3

101705

Dec., 2018

B.Tech. 7th Semester (Under CBS)

SOFTWARE TESTING

(CE-421)

Time : 3 Hours]

[Max. Marks : 60

Instructions:

- (i) *It is compulsory to answer the questions of Part-1. Limit your answers within 20-40 words in this part.*
- (ii) *Answer any four questions from Part-2 in detail.*
- (iii) *Different parts of the same question are to be attempted adjacent to each other.*
- (iv) *Assume suitable standard data wherever required, if not given.*

PART-1

1. (a) List out the limitations of random testing. (2)
- (b) Differentiate verification and validation. (2)
- (c) Give an example for design defect and testing defect. (2)
- (d) Explain object oriented testing. (2)

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- (e) Write about bug prevention. (2)
- (f) Give the objectives of regression testing. (2)
- (g) What do you mean by backward and forward traceability? (2)
- (h) Define Test suite Minimization Problem. (2)
- (i) Give "James Bach" definition for Software Testing. (2)
- (j) Define additional statement coverage prioritization. (2)

PART-2

- 2. (a) Explain Cause-Effect Graphing based testing. (5)
 - (b) Differentiate static v/s Dynamic Testing. (5)
- 3. (a) What are the challenges in testing for web based software? (5)
 - (b) Discuss OO Testing Methods. (5)

- 4. Demonstrate an anomaly can be detected. Explain different types of data flow anomalies and data flow anomaly stage graphs. Also, write applications of data flow testing. (10)