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Question Paper Code: 59811

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Computer Science and Engineering

15UIT911- SOFTWARE TESTING

(Common to Information Technology)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 20 = 100 Marks)

1. (a) Suppose you are a member of a team that was designing a defect repository. What organizational approach would you suggest and why? What information do you think should be associated with each defect? Why is this information useful, and who would use it? CO1- App (20)

Or

- (b) Give argument for an independent testing group in an organization. consider organizational size,resources,culture and types of software systems developed as factors in your argument. CO1 -App (20)

2. (a) What is a cause-effect graph? Consider the following Causes and effects for a simple ATM banking transaction system: CO2 -App (20)

Causes (inputs)

C1: Command is credit

C2: Command is debit

C3:Account number is valid

C4: Transaction amount is valid Effects

E1: Print "invalid command"

E2:Print" invalid account number"

E3: Print "debit amount not valid"

E4:Debit account

E5:Credit account

Model a cause-effect graph for the above

Or

- (b) Demonstrate the various black box test cases using Equivalence class partitioning and boundary values analysis to test a module for ATM system. CO2 -App (20)
3. (a) One of the problems of system testing, particularly with interactive systems, is to anticipate all the strange things the user might do. What happens in the SATM system if a customer enters three digits of a PIN and then leaves? CO3 -Ana (20)
- Or
- (b) Analyze the Call Graph–Based Integration with your own Pseudo code. CO3 -Ana (20)
4. (a) Apply the concepts of automated testing with your own scenario, list the cons and Pros of automated testing plain the process of image reconstruction using MRI. CO4 -App (20)
- Or
- (b) Currently you do not have any automation in place in your project, now you want to implement automation, what would be your steps describe it. CO4- App (20)
5. (a) Developing a testing strategy for Internet-based applications requires a solid understanding of the hardware and software components that make up the application. CO5 -Ana (20)
- Or
- (b) Compare the three type of testing of an Internet applications with an example. CO5 -Ana (20)