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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- September 2016

B.Tech V Semester

COURSE CODE: 10B1WCI515

MAX. MARKS: 15

COURSE NAME: Software Testing & Debugging

COURSE CREDITS: 04

MAX. TIME: 1Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Justify the following statements with suitable reasoning and examples.
 - a. PAL (Process Asset Library) is helpful to achieve TMM level 5 for any software company.
 - b. CMM level is correlated with TMM level.
 - c. Completeness is a dynamic quality attribute.
 - d. Implicit requirements are different from explicit requirements.
 - e. Maintenance phase requires maximum effort in software development life cycle model. [5]
2. Explain and compare V model and modified V model with suitable diagrams. [3]
3. A program determines the previous date in the calendar. Its input is entered in the form of dd-mm-yyyy with the following range: mm belongs to [1,12], dd belongs to [1,31] and yyyy belongs to [1900,2025]. Its output would be the previous date or an error message. Design test case table using equivalence class partitioning. [2]
4. A wholesaler sells printer cartridges. The minimum order quantity is 5. There is a 20% discount for orders of 100 or more printer cartridges. You have been asked to prepare test cases using various values for the number of printer cartridges ordered. Which of the following groups contain three test inputs that would be generated using Robust Boundary Value Analysis? [2]
5. A university is admitting students in a professional course subject to the following conditions: a. Marks in Python ≥ 70 b. Marks in C+ ≥ 60 c. Marks in OOAD ≥ 60 d. Total in all these subjects ≥ 220 or total in Python and C+ ≥ 150 . If the aggregate mark of an eligible candidate is more than 280, he will be eligible for scholarship course; otherwise he will be eligible for normal course. The program reads the marks in the three subjects and generates the following outputs:
 - (i) Not eligible
 - (ii) Eligible for scholarship course
 - (iii) Eligible for normal course
 - (iv) Invalid entryDesign test case table for this program using decision table testing. [3]