|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN**   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **1** | **P** | **E** |  |  | **C** | **S** |  |  |  | | | |
| logo1 | **PESIT Bangalore South Campus**  Hosur road, 1km before Electronic City, Bengaluru -100  **Department of Computer Science and Engineering** |  |

**INTERNAL ASSESSMENT TEST 3**

|  |  |
| --- | --- |
| **Date :** 05/11/19 | **Max Marks: 60** |
| **Subject & Code:** Intr. To Software Testing (17CS552) | **Section:** A, B and C |
| **Name of Faculty:** D.sudaroli Vijayakumar | **Time: 8**:30 AM-10:00 AM |

**Note: *Answer FIVE full questions. Selecting One question from each part.***

|  |  |  |
| --- | --- | --- |
|  | **Part I** |  |
| 1 | With reference to test execution, explain the concept of scaffolding and test oracles | **12** |
|  | OR |  |
| 2 | How does the analysis principles differ from testing? Explain the following analysis principles with suitable examples.   1. Sensitivity 2. Redundancy 3. Restriction 4. Partition 5. Visibility | **12** |
|  | **Part II** |  |
| 3a | Differentiate the following   1. Regression and Progression 2. Reengineering and reverse engineering | **4** |
| 3b | Explain the process of Root cause Analysis getting assistance from the 80/20 Pareto rule. | **8** |
|  | OR |  |
| 4 | Explain the risks generic to process management along with its control tactics. | **12** |
|  | **Part III** |  |
| 5a | Integration testing is more detailed than system testing. Justify this with the help of SATM system. | **6** |
| 5b | What are the factors responsible for requirement changes? How are the requirements traced? | **6** |
|  | OR |  |
| 6 | Explain the Call graph-based Integration. | **12** |
|  | **Part IV** |  |
| 7 | Explain the various steps of the regression testing process. Which step is most important and why? | **12** |
|  | OR |  |
| 8 | Describe the dependability properties in detail. | **12** |
|  | **Part V** |  |
| 9 | Why quality process model on top of software development process model? Explain the cleanroom process and SRET model with suitable diagram. | **12** |
|  | OR |  |
| 10 | Suppose a project applied orthogonal defect classification and analyzed correlation between fault types and fault triggers, as well as between fault types and impact. What useful information could be derived from cross correlating those classifications, beyond the information available from each classification alone? | **12** |