Subject Code: CDV2004

Subject Name: Build and Release Management

Duration: 2 hours (including time for uploading)

(10 Minutes Max Grace time)   Max. Marks: 50

Instructions

- Write name and registration number, page number, on all the pages, convert into one PDF, tag it with your registration number_Name_subject code_subject title.

- The Assessment consists of 2 sections
    - Part A contains 10 questions of 2 marks each and all questions are compulsory.
    - Part B consists of 4 questions of 10 marks each, out of which 3 questions to be attempted.
- Hand written responses to be submitted/uploaded as scanned pages of answer sheets (max. 5 pages) within the mentioned duration.

PART – A

*2   * 10 =20 Marks (Each answer- Word Limit- 50 Words)*

1. What are the build life cycle phases in Maven?   **2 Marks**

2. How to generate a build report?   **2 Marks**

3. In which build phase, unit test reports are recorded?   **2 Marks**

4. In which build phase, only latest or agreed-on code changes are build?   **2 Marks**

5. Discuss Best Practices for Build and Release management.   **2 Marks**

6. What are the different category of Build Tools?   **2 Marks**

7. In which build tool, scripts are not usable?   **2 Marks**

8. What is the default repository for Maven? **2 Marks**

9. How to check-in Code to GitHub? **2 Marks**

10. Which build tool uses POM to build the project? **2 Marks**

PART – B

*10 * 3 = 30 Mark (Each answer- Word limit- 250 words)*

11. In an organization, how does a release is made available to end user? What does the release management comprises of, explain them briefly? **(2.5+2.5+2.5+2.5 Marks)**

12. Explain about Dependency Identification and the different type of dependency scopes.

(4+6 Marks)

13. Explain the concept of Unit testing of a project, different types of Unit testing techniques and also Unit test framework. **(4+4+2 Marks)**

14. Explain in detail about Code coverage. How is Code Coverage Calculated? (5+5 Marks)