Reg. No.: | | | | | | | | | | |

END TERM EXAMINATION – January-2023

SEMESTER – III

(B.Tech. in CSE with specialization in Cloud Engg. & Development Automation-2021)

Subject Code: 21CD201 **Duration: 3 hours**

Subject: Source Code Management and Development Automation

Max. Marks: 100

Instructions

- **All Questions are compulsory**
- **The Question paper consists of 2 sections - Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.**
- **There is no overall choice. Only Part B question include internal choice.**

PART – A

(2 * 10 = 20 Marks)

1. What are the continuous practices that can be adapted in order to accelerate the development and delivery of a product?

2. How does CI works?

3. What are the benefits of Continuous Integration?

4. What is Continuous Delivery?

5. What is a working copy of the repository?

6. Differentiate between domain-specific and general-purpose languages.

7. State the structure of for loop and elaborate their significance in writing the scripts.

8. Give the advantages and disadvantages of Build Automation.

9. What is the role of task scheduler in an operating system and also give the structure of CRON expression.

10. What is a piping operator give an example.

PART – B

(16 * 5 = 80 Marks)

11. a) Explain the best practices to be followed in Continuous Integration. **(16 Marks)**

OR

b) Explain the best practices to be followed in Continuous Deployment. **(16 Marks)**

12.a) List basic operations in VCS and explain each of them with example. **(16 Marks)**

OR

b) Explain the types of VCS and also explain the benefits of having VCS. **(16 Marks)**

13.a) Give an overview of Subversions also explain its features and limitations. **(16 Marks)**

OR

b) Differentiate between Local, Distributed and Centralized Version Control System. **(16 Marks)**

14. a) Explain the phases of Build process and discuss the components required in order to automate the build process. **(16 Marks)**

OR

b) Explain the need of Automated Deployment and how it is implemented. Explain the benefits of Automated Deployment. **(16 Marks)**

15. a) Explain Some important "Make" arguments. Explain the use cases where the recursive building of Makefiles will be required. **(16 Marks)**

OR

b) Explain the best practices in writing "Makefiles". **(16 Marks)**