

Code No: 156FB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, March - 2024****DEVOPS****(Common to CSE(CS), CSE(AI&ML))****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A**(25 Marks)**

- 1.a) How do you identify network bottlenecks in performance testing? [2]
- b) Differentiate between the Scrum and Kanban. [3]
- c) How can the architecture contribute to DevOps? [2]
- d) What is the role of a DevOps architect? Explain. [3]
- e) What does Docker pause mean? [2]
- f) Explain the need for source code control. [3]
- g) What is a build server in DevOps? [2]
- h) Give a brief note on Triggers. [3]
- i) Write the Pros and cons of automated of testing. [2]
- j) List the features of Selenium. [3]

PART - B**(50 Marks)**

- 2.a) Discuss the various principles of DevOps.
 - b) Explain the DevOps Lifecycle. [5+5]
- OR**
3. Discuss the continuous delivery process and release management. [10]
 4. Explain the various components of DevOps architecture, and resilience. [10]
- OR**
- 5.a) Describe the monolithic scenario in detail.
 - b) What are the thumb rules of Devops architecture? [5+5]
- 6.a) Illustrate the different implementations of Git server.
 - b) Explain the source code management system and impact of migrations in project management. [5+5]
- OR**
- 7.a) Outline the history of source code management.
 - b) Write down the steps in the pull-request model. [5+5]

8. Explain the Jenkins plugins and file system layout. [10]
- OR**
9. Describe in detail about the Job chaining and build pipelines. [10]
- 10.a) Discuss about the JavaScript testing.
b) Explain about the Virtualization stacks. [5+5]
- OR**
11. List and explain the various types of testing. [10]

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Used paper March-2024