

R18

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]

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8. Explain the Jenkins plugins and file system layout. [10]

OR

QA QA QA QA QA QA QA G

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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QA QA QA QA QA QA QA G