

Code No: 156FB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, August/September - 2024****DEVOPS****(Common to CSE(AI&ML), 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) What is The Agile Lifecycle? [2]
- b) List the Tools Used by DevOps. [3]
- c) Explain in about Micro services. [2]
- d) Explain about rolling updates. [3]
- e) What is the main purpose of GitLab? [2]
- f) Discuss about shared authentication. [3]
- g) Explain about Jenkins plugins. [2]
- h) What is build systems? [3]
- i) What is unit testing? [2]
- j) List out various types of testing. [3]

PART – B**(50 Marks)**

- 2.a) How many steps are in DevOps process? Explain each step in detail.
 - b) Write and explain the difference between DevOps and Agile in DevOps. [5+5]
- OR**
3. Discuss in detail about release management and agile development model. [10]
- 4.a) State and explain various phases of software development life cycle of Devops.
 - b) What is data base migration and describe different type's migration issues. [5+5]
- OR**
5. Write a brief note on software architecture. Explain about the monolithic scenario. [10]
 6. Discuss about hosted Git servers and the pull request model. [10]
- OR**
- 7.a) Write short notes on Roles and code From a DevOps point of view.
 - b) Write a history of source code management. [5+5]
8. What are triggers? Explain about job chaining and build pipelines. [10]
- OR**
- 9.a) What is Building the Code? Explain the Code Building Process.
 - b) Write short note on the host server. [5+5]

- 10.a) Write and explain Selenium features. [5+5]
b) List out and explain Automation of testing Pros and cons. [5+5]

OR

11. Explain the following:
a) Visualization stacks
b) Testing backend integration points. [5+5]

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Used paper Aug-2024