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Question Paper Code: U8207

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Information technology

21ITV207 - DEVOPS

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Explain the Advantages and Disadvantages of Devops. CO1-U
2. What is Git? CO1-U
3. What is Maven ? CO1 - U
4. What is POM Files? and Why do we use POM files? CO1 - U
5. What are the Plugins available in Jenkins? CO1 - U
6. Differentiate Between SSH and SMTP. CO2-App
7. Write a YAML code to make system shutdown , making delay and restarting the system. CO2-App
8. Write a Ansible playbook for stationary of the shop. CO2-App
9. What is Pipeline in devops? CO1 - U
10. Praveen wishes to modify the code he created using Azure pipelines. How can Praveen achieve this? CO2-App

PART – B (5 x 16= 80 Marks)

11. (a) What is AWS? Explain about AWS in detail . CO1 - U (16)
Or
(b) What is Git and Git Hub? Explain the GIT and GIT Hub concepts in detail. CO1 - U (16)
12. (a) A programmer wishes to do his project using Maven. What are the phases he needed to do? How he can write POM file for that project? CO2-App (16)
Or
(b) A user needed to do his project in Gradle. In what way he can do his project using Gradle. Also explain the Usage of Gradle and installing Gradle in detail. CO2-App (16)

13. (a) Ram needed to create a job in Jenkins. Explain about creating job in Jenkins and Configuring Jenkin Job in detail. CO2-App (16)
- Or
- (b) Johnson has done the java project. He wishes to configure Jenkins to work with java ,Git and Maven. Explain the methods to configure java ,Git and Maven. CO2-App (16)
14. (a) What is Ansible YAML? What is usage of YAML? Explain about any two Ansible Module. CO1 - U (16)
- Or
- (b) Explain About Roles in Ansible? Explain about Various AdHoc commands in Ansible. CO1 - U (16)
15. (a) Robins Create a railway registration website which is connected with MYSQL using HTML,CSS and PHP. He wishes to upload in Github. Write a code for creating website and ways to create and upload in Github. CO2-App (16)
- Or
- (b) Write down the steps to develop a own mobile app project using Azure pipeline. CO2-App (16)