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Question Paper Code: U8207

B.E./B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

Professional Elective

21ITV207- DEVOPS

(Regulations 2021)

(Common to All Engineering branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

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| 1. What are the Devops Components? | CO1- U |
| 2. What are the Database services provided by Devops? | CO1- U |
| 3. Explain build phases in Maven. | CO1- U |
| 4. What are the repositories available in Maven? | CO1- U |
| 5. What are the Plugins available in Jenkins? | CO1- U |
| 6. Differentiate Git and Maven. | CO1- U |
| 7. What are the configurations needed for installing Ansible? | CO1- U |
| 8. What is master slave Configuration? How it is used in Ansible? | CO1- U |
| 9. What is Devops pipeline? Why it's necessary for a user? | CO1- U |
| 10. A user needed to create a project in Github. What are the repositories he/she needed to create a particular project? | CO2- App |

PART – B (5 x 16= 80 Marks)

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| 11. (a) What is Azure version control system? Explain about Azure version control in detail. | CO1- U | (16) |
| Or | | |
| (b) What is AWS? Explain about AWS in detail. | CO1- U | (16) |
| | | |
| 12. (a) A programmer wishes to do his project using Maven. What are the phases he needed to do? And how he can write POM file for that project? | CO2- App | (16) |

Or

- (b) Robert needs to make a project using Maven. What can he do to achieve it and explain about Maven build phases and Maven profile in detail? CO2- App (16)
13. (a) What is Jenkins? How to install and configure Jenkins? CO1- U (16)
Or
(b) What is meant by plugins? Explain about various plugins used in project? CO1- U (16)
14. (a) ABC Travels owns Travel Company which contains more variety of vehicles. SHI Software company wishes to create a data using YAML. Write a YAML code to achieve it. CO2- App (16)
Or
(b) Alagar maintains a shopping complex which contains variety of items. He used to organize the project with the help of Ansible. Write an Ansible code to help Alagar to complete the project. CO2- App (16)
15. (a) What is Repository? What is the usage of repository in Github? Explain the methods of creating Repository in Github. CO1- U (16)
Or
(b) Explain the ways of modifying Azure pipelines and Explain about pipeline in detail. CO1- U (16)