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| 18. Define Multi-collinearity. | 2 | K1 | CO4 |
| 19. What is Clustering? | 2 | K1 | CO5 |
| 20. What is unsupervised learning? | 2 | K1 | CO5 |
| 21. List out the Partitioning methods that are involved in the Clustering Process. | 2 | K1 | CO6 |
| 22. Difference between Ensemble learning and instance based learning. | 2 | K2 | CO6 |

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

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| 23. a) Explain in detail about the types of machine learning with necessary diagrams | 11 | K2 | CO1 |
| OR | | | |
| b) Discuss in detail about reinforcement learning with relevant Examples. | 11 | K2 | CO1 |
| 24. a) Explain in detail about the basic types of data in machine learning. | 11 | K2 | CO2 |
| OR | | | |
| b) Describe the different methods involved in training the predictive model. | 11 | K2 | CO2 |
| 25. a) Discuss in detail about the feature engineering with an example. | 11 | K2 | CO3 |
| OR | | | |
| b) Discuss about the decision tree algorithms and briefly discuss the entropy and information gain. | 11 | K2 | CO3 |
| 26. a) Illustrate simple linear regression using a graph explaining slope and intercept also Explain rise, run, and slope in a graph. | 11 | K3 | CO4 |
| OR | | | |
| b) Demonstrate polynomial regression model in detail with an example. | 11 | K3 | CO4 |
| 27. a) List out the broad three categories of clustering techniques? Explain the characteristics of each briefly. | 11 | K2 | CO5 |
| OR | | | |
| b) Explain the apriori algorithm for association rule learning with an example. | 11 | K2 | CO5 |
| 28. a) Examine about the representation learning in detail. | 11 | K3 | CO6 |
| OR | | | |
| b) Illustrate how ensemble learning works with real dataset. | 11 | K3 | CO6 |