## Unit III

1. Bayes theorem calculates in probabilistic models. Answer: probabilities
2. The Naive Bayes classifier assumes between features. Answer: independence
3. The principle that prefers the simplest hypothesis is called Answer: Occam's Razor
4. In Bayesian learning, the belief before seeing the data is called the Answer: prior
5. The term PAC stands for learning. Answer: Probably Approximately Correct
6. The EM algorithm involves two steps: Expectation and Answer: Maximization
7. The Vapnik-Chervonenkis (VC) dimension measures the of a model. Answer:
capacity
8. In instance-based learning, predictions are based on the data points. Answer:
nearest
9. The term "likelihood" in Bayesian learning refers to the of the data given the model.
Answer: probability
10. Instance-based learning stores training examples for future use. Answer: all
Unit IV
Genetic algorithms are based on the concept of Answer: natural selection
2. The process of combining parts of two parent solutions in genetic algorithms is called
Answer: crossover
3. In reinforcement learning, the feedback received after performing an action is called a
Answer: reward
4. In genetic algorithms, mutations introduce into the population. Answer: diversity
5. A reinforcement learning agent aims to maximize its over time. Answer: reward
6. Genetic algorithms use a function to evaluate the quality of solutions. Answer:
fitness

7. The tradeoff in reinforcement learning involves choosing between exploring new
actions or exploiting known ones. Answer: exploration-exploitation
8. Reinforcement learning typically involves interacting with a environment. Answer:
dynamic
9. In genetic algorithms, helps introduce diversity into the population. Answer: mutation
10. Reinforcement learning algorithms aim to find the strategy for a task. Answer:
optimal
Unit V
Analytical learning emphasizes the use of knowledge. Answer: prior
2. The integration of inductive and analytical learning enhances Answer: performance
3. A significant advantage of analytical learning is its ability to handle Answer:
complexity
4. The process of refining knowledge based on examples is known as Answer:
explanation-based generalization
5. In analytical learning, the term "explanation-based learning" involves Answer:
reasoning
6. Combining analytical and inductive approaches results in models. Answer: robust
7. Analytical learning is particularly beneficial in domains. Answer: complex
8. One key feature of analytical learning is its reliance on knowledge. Answer: expert
9. The integration of different learning approaches can lead to improved performance.
Answer: predictive
10. Analytical learning can assist in making decisions. Answer: complex