

8. Provide an overview of the Application Layer in TCP/IP networking, including its functions, protocols, and examples of application-level services. (5)
9. Explain the File Transfer Protocol (FTP) in the Application Layer of TCP/IP networking. (5)
10. Explain how bidirectional search differs from traditional blind search algorithms like breadth-first search and depth-first search and the scenarios where bidirectional search is advantageous. (5)
11. Justify the preference for Supervised Learning over Unsupervised Learning in scenarios where labeled data is available. (5)
12. Explain the concept of adversarial search in artificial intelligence, and its importance in games and decision-making scenarios. (5)

OR

Explain the significance of State Space Search in problem-solving tasks within artificial intelligence, and its effectiveness. (5)
