**Deepseek Answer  
  
First Part: Multiple Choice Answers**

1. C
2. B
3. D
4. D
5. 4.0
6. C
7. B
8. A
9. C
10. A
11. 12
12. First option
13. Third option
14. Second option
15. Third option
16. D
17. B
18. A and D
19. A
20. C
21. A
22. C
23. Neither P nor Q
24. None (Assuming typo; closest provided answer may vary)
25. C

**Second Part: True/False Answers**  
26. TRUE  
27. TRUE  
28. TRUE  
29. TRUE  
30. FALSE  
31. FALSE  
32. TRUE  
33. FALSE  
34. FALSE  
35. FALSE  
36. FALSE  
37. FALSE  
38. TRUE  
39. TRUE

(Note: Some answers may require verifying specific exam context or potential typos in original questions.)

Question 25 Which of the following statements about the k-nearest neighbors algorithm is TRUE? Here, N denotes the number of data points. y The variance of the k-nearest neighbors method is 0 when k = N . The bias of the k-nearest neighbors method is 0 when k = N . The k-nearest neighbors method is sensitive to the choice of distance metric. The k-nearest neighbors approach is only applicable to classification tasks.

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