Answers and Solutions

Exam #3 ~ Multiple Choice

1. A	11. B	21. C	31. E
2. E	12. C	22. D	32. B
3. E	13. A	23. A	33. A
4. E	14. E	24. D	34. C
5. C	15. A	25. E	35. D
6. D	16. B	26. A	36. D
7. C	17. B	27. A	37. A
8. E	18. B	28. D	38. B
9. C	19. B	29. B	39. A
10. A	20. C	30. D	40. D

Notes:

- 1. In Option II, (double) (q / 2) evaluates to 1.0; in Option III, (double) (p * q / 2) evaluates to 7.0.
- 2. band.substring(1, 4) is "nam"; band.substring(5, 8) is "nag".
- 3. 4/3 yields 1.
- 4. A "for each" loop cannot change the values in an ArrayList of strings because
- 5. filter makes a new string from str with all the occurrences of pattern in str
- consists of 5 characters: \, *, <newline character>, *, \.
- 7. The last element remains unchanged, which eliminates Choices A and B.
- 8. countSomething returns the number of times the maximum value occurs in the array. If a new maximum is found, the count is reset to 1.
- 9. Suppose somethingIsFalse returns true. Then the else clause is executed in the code segment and it returns true, and so does the statement in Choice C.
- 10. It is easier to negate each of the expressions (using De Morgan's Laws when acceptance) and check whether the result is equivalent to "all three values are the same." Choice A, ! (a != b || b != c) is the same as (a == b && b == c). true if and only if a == b and b == c and a == c.