**Long Test**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section:\_\_\_\_\_\_\_\_\_\_

Direction: Read and analyze the questions. Chose the best answer .

1. Simplify \*

A. B. C. D.

2. Find

A. B. C. D.

3. Which of the following is the simplified form of ?

A. B. C. D.

4. What is in simplified form?

A. B. C. D.

5. is written in simplified form as

A. B. C. D.

6. To simplify the expression , what will you do with their exponents?

A. add B. divide C. multiply D. subtract

7. Which of the following mathematical statement is CORRECT?

A. B. C. D.

8. Andrea simplified the expression and her answer was . Is she correct?

A. Yes, she is correct. C. No, the correct answer is

B. No, the correct answer is D. No, the correct answer is

9. What is the index of the expression when written in radical form?

A. B. C. D.

10. Which of the following is the equivalent of in expression with rational exponent?

A. B. C. D.

11. Which expression is the same as ?

A. B. C. D.

12. Which of the following is the equivalent radical expression of ?

A. B. C. D.

13. Which of the following is a radical expression?

A. B. C. D. none

14. The expression in radical form is \_\_\_.

A. B. C. D.

15. Which of the following is the equivalent of in expression with rational exponent?

A. B. C. D.

16. Simplify

A. B. C.

17. is equal to

A. B. C. D.

18. Find the root of

A. B. C. D.

19. when simplify is equal to

A. B. C. D.

20. Which of the following is equal with ?

A. B. C. D.

21. It is the process of eliminating the radicals in the denominator of a fraction.

A. Elimination B. Rationalization C. Fractionalization D. Simplification

22. Which of the following needs to be rationalized?

A. B. C. D.

23. Subtract.

A. B. C. D.

24. When do you say that two radicals are alike?

A. when their indices are the same C. when their integral exponents are the same

B. when their radicands are the same D. when their indices and radicands are the same

25. Which of the following set of radicals can be added or subtracted?

A. B. C. D.

26. The combined form of is \_\_\_.

A. B. C. D.

27. What is the equivalent of using exponential notation?

A. B. C. D.

28. What is the result after simplifying ?

A. B. C. D.

29. Evaluate

A. B. C. D.

30. Andrew said that will be equal to . Is he correct?

A. Yes, he is correct. C. No, it should be

B. No, it should be D. No, it should be

31. Simplify

A. B. C. D.

32. Simplify the expression with positive exponent.

A. B. C. D.

33. Which of the following is a radical expression?

A. B. C. D. none

34. Find the value of C when m = 27 and C = .

A. B. C. D. 648

35. Which of the following is a radical expression?

A. B. C. D.

36. Which of the following is a square root of 196?

A. B. C. D.

37. Find the square root of 64.

A. B. C. D.

38. Evaluate and perform the operation of .

A. B. C. D.

39. Simplify .

A. B. C. D.

40. Which of the following is the equivalent of in expression with rational exponent?

A. B. C. D.