

ALGEBRA

PRACTICE EXAM QUESTIONS

1. What is the value of $(\log 5 \text{ to the base } 2) + (\log 5 \text{ to the base } 3)$?

- A. 3.97
B. 7.39
C. 9.37
D. 3.79

2. What is the value of \log to the base 10 of $1000^{3.5}$?

- A. 9.9
B. 99.9
C. 389
D. 9.5

3. If $\log x + 2 = \log x + 2$, then the value of x is:

- A. 1
B. 2
C. 3
D. 4

4. The logarithms of the quotient and the product of two numbers are 0.552382548 and 1.556382548, respectively. Find the first number?

- A. 9
B. 10
C. 11
D. 12

5. Solve for y : $y = 3e^{\frac{y}{2}}$

- A. 2
B. 4
C. -2
D. $x - 2$

6. In the expansion of $(x + 4x)^{12}$, the numerical coefficient of the 9th term is:

- A. 255,480
B. 126,720
C. 65,540
D. 506,480

7. The constant term in the expansion of $(x + x^{\frac{1}{2}})^{12}$ is:

- A. 560
B. 565
C. 645
D. 745

8. Find the sum of the coefficients in the expansion of $(x + 2y - z)^5$.

- A. 256
B. 1024
C. 3
D. 4

9. The equation whose roots are the reciprocals of the roots of $2x^2 - 3x - 5 = 0$ is:

- A. $5x^2 + 3x - 2 = 0$
B. $5x^2 - 3x - 2 = 0$
C. $5x^2 + 3x - 2 = 0$
D. $2x^2 - 3x - 5 = 0$

10. The roots of a quadratic equation are $\frac{1}{4}$ and $\frac{1}{3}$. What is the equation?

- A. $12x^2 + 7x + 1 = 0$
B. $12x^2 + 7x - 1 = 0$
C. $12x^2 - 7x - 1 = 0$
D. $12x^2 - 7x + 1 = 0$

11. Two engineering students are solving a problem leading to a quadratic equation. One student made a mistake in the coefficient of the first-degree term, got roots of 2 and -1. The other student made a mistake in the coefficient of the constant term and got roots of -1 and 4. What is the correct equation?

- A. $x^2 - 3x - 3 = 0$
B. $x^2 + 3x + 3 = 0$
C. $x^2 + 3x + 6 = 0$
D. $x^2 - 3x - 6 = 0$

12. If $\frac{\log_2 x}{1 - \log_2 x} = 2$, what is x ?

- A. 56
B. 28
C. 8
D. 5

13. Find the value of x in the equation $\log x = 2.0857512$.

- A. 3
B. 4
C. 9
D. 12

14. Peter's age 13 years ago was 1/3 of his age 7 years hence. How old is Peter?

- A. 18
B. 27
C. 25
D. 24

15. Solve for x : $3x = (3 + 25)^{10}$

- A. 9
B. 18
C. 9
D. 18

16. Solve for C : $2C = \frac{1}{\frac{1}{2} - \frac{1}{3} - \frac{1}{4}}$

- A. 6.725
B. 6.625
C. 6.852
D. 6.455

17. Simplify the following:

- $7^{11} - 8(7^{11}) + 5(7^{11}) - 46(7^{11})$
A. 7^0
B. 1
C. 7^0
D. 7

18. Which of the following is true?

- A. $(\sqrt{-2})(\sqrt{-2}) = 2$
B. $24 \approx 4\sqrt{6}$
C. $\sqrt{10} = \sqrt{5} + \sqrt{2}$
D. $5^5 + 5^5 + 5^5 + 5^5 + 5^5 = 5^5$

19. Which of the following is equivalent to $\sqrt[3]{64}$?

- A. $\sqrt[3]{64}$
B. $\sqrt[3]{64}$
C. $\sqrt[3]{64}$
D. $\sqrt[3]{64}$

20. Solve for x : $3^x 5^{10} = 45^{10}$

- A. 2.1475
B. 2.1445
C. 2.4054
D. 2.1544

21. Solve for x from the following equation:

$$(x^2)(x^2) = 100,000$$

- A. 15.85
B. 10
C. 12
D. 12.56

22. If $3x = 75$, then $3x^2 / 75^2 =$

- A. 1
B. 37
C. 305
D. 489

Algebra Exam Answers

**Thirumalaisamy P.
Velavancorresponding**



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