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Answer Key

Duration: 30 Mins

Total Marks: 33

Q.ID: ITISKILL8015CC

1. What is the value of $x^3 + 3y^2x^2$ if $x=3$, $y=2$?

- A) 135 B) 81
C) 54 D) 63

Answer: A) 135

2. What is the multiplication value of $5a^2b \times 8a^5b^3$?

- A) $40a^4b^7$ B) $40a^3b^2$
C) $40a^7b^4$ D) $40a^2b^3$

Answer: C) $40a^7b^4$

3. Which is equal to $(a^m)^n$?

- A) a^{mn} B) $a^{m/n}$
C) a^{m+n} D) a^{m-n}

Answer: A) a^{mn}

4. What is the value of adding $(5x+2y)$, $(4x - 7z)$ and $(15z - 3y)$?

- A) $9x + y - 8z$ B) $x + 9y + 8z$
C) $x - 9y + 8z$ D) $9x - y + 8z$

Answer: D) $9x - y + 8z$

5. What is the value of $5x^4 / 5x^3$?

- A) $5x^4 / 5x^3$ B) $5x^2$
C) x D) $5x$

Answer: C) x

6. What is the value of x if $(x + 2) / 2 = 19$?

- A) 33 B) 35
C) 36 D) 38

Answer: C) 36

7. What is the value of x if $11x+4=37$?

- A) 3 B) 2
C) 4 D) 5

Answer: A) 3

8. What is the value of 'X' if $x - y = 6$ and $x + y = 8$?

- A) 6 B) 7

- C) 14 D) 5

Answer: B) 7

9. What is the value of $12x^3y^2 / 4x^2y$?

- A) $(-3xy)$ B) $16xy$
C) $8xy$ D) $3xy$

Answer: D) $3xy$

10. What is the formula for $(a-b)^2$?

- A) $(-a^2 - 2ab - b^2)$ B) $a^2 + 2ab + b^2$
C) $a^2 - 2ab - b^2$ D) $a^2 - 2ab + b^2$

Answer: D) $a^2 - 2ab + b^2$

11. What is the value of $x^2 - y^2$ if $(x+y) = 9$, $(x - y) = 4$?

- A) 46 B) 13
C) 65 D) 36

Answer: D) 36

12. What is the formula for $a^m \times a^n$?

- A) a^{m+n} B) $n.a^m$
C) a^{m-n} D) a^{mn}

Answer: A) a^{m+n}

13. What is the expanded form of $(a+b)^2$?

- A) $a^2 + 2ab - b^2$ B) $a^2 - 2ab + b^2$
C) $(-a^2 - 2ab + b^2)$ D) $a^2 + 2ab + b^2$

Answer: D) $a^2 + 2ab + b^2$

14. What is the value of 625^0 ?

- A) 0 B) 1
C) 25 D) 525

Answer: B) 1

15. What are the three consecutive numbers if their sum is 42?

- A) 12,13,14 B) 14,15,16
C) 13,14,15 D) 11,12,13

Answer: D) 4ab

32. What is the value of $14x+3y+25x+2y$?

A) $16x + 28y$

B) $39x + 5y$

C) $44xy$

D) $17x + 27y$

Answer: B) $39x + 5y$

33. What is the value of ab if $(a+b)^2=36$ $(a-b)^2=24$?

A) 4

B) 6

C) 3

D) 2

Answer: C) 3