

Sylhet Cadet College
2nd Term-End Examination - 2024
Class: VII
Subject: Mathematics

Time: 25 minutes

Full Marks: 30

[N.B-Answer all the questions. Each question is worth 01 (one) mark.]

Cadet No. _____ Name: _____ Form: _____ Sign of Invigilator: _____

Short Questions

1. If a piece of paper is folded 10 times, how many layers are created? _____
2. What is the value of $\frac{2^5}{4^2}$ _____
3. What is GCD of $\frac{1}{2}$ and $\frac{1}{4}$? _____
4. What is Unit Ratio? _____
5. In a polygon, what is the relationship between the no. of vertices and the no. of sides? _____
6. Which ratio gives us the value of Pi (π)? _____
7. If $4x + 6 = 18$, $x = ?$ _____
8. If $\frac{a}{c} = \frac{d}{b}$, $b = ?$ _____
9. What is the LCM of $\frac{1}{2}$ and $\frac{1}{6}$ _____
10. The ratio of two numbers is 2:3. If the first number is 20, what is the other number? _____
11. Where do you have to put your finger to hold a disk on it? _____
12. $x - 42 = 915$; $x = ?$ _____
13. Write ten thousand in exponent form. _____
14. Write 3 multiples of 0.3, excluding itself. _____
15. Write 2 common factors of $\frac{1}{2}$ and $\frac{1}{4}s$ _____
16. $A:B = 5:6$ and $B:C = 8:12$. What is $A:B:C$? _____
17. Two numbers are 10 and 35. Express them as a ratio. _____
18. The area of a circle is 28.26. What is its radius? [assume $\pi = 3.14$] _____
19. Name the type of the equation: $ax^2 + bx + c$ _____
20. $d \div 20 = 20$. What is the value of d ? _____
21. $(2^{-2})^2 = ?$ _____
22. If $8^{27} \times 8^x = 8^{30}$, what is the value of x ? _____
23. Write 10 Crore in exponent form. _____
24. Price of 4 apples is equal to that of 2 apples and 1 orange. If price of an apple is 5 taka, what is the price of an orange? _____
25. A pattern is: $X_n = 3 \times 2^{n-1}$; where X_n is the n th value. what is 5th number? _____
26. What is the value if 2 is divided by 0.5? _____
27. Write down 3 multiples of $\frac{1}{6}$ _____
28. $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{4}{9} \rightarrow$ Which is the greatest? _____
29. 0.25, 0.125, 0.30, 0.55 \rightarrow Which one is a factor of 0.5? _____
30. The radius of a circle is 1 m. What is its circumference? _____

