

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? _____

Multiple Choice Questions

1. $(2^{-2})^2 = ?$
(a) $\frac{1}{4}$ (b) $\frac{2}{4}$ (c) $\frac{1}{16}$ (d) $\frac{1}{8}$
2. If $8^{27} \times 8^x = 8^{30}$, what is the value of x?
(a) 2 (b) 3 (c) 4 (d) 5
3. 10 Crore is equal to —
(a) 10^6 (b) 10^7 (c) 10^8 (d) 10^9
4. A pattern is: $X_n = 3 \times 2^{n-1}$; where X_n is the nth value. what is 5th number?
(a) 16 (b) 48 (c) 96 (d) 32
5. What is the value if 2 is divided by 0.5?
(a) 0.5 (b) 1 (c) 4 (d) 2.5
6. Which one is NOT a multiple of $\frac{1}{6}$
(a) $\frac{1}{6}$ (b) $\frac{1}{18}$ (c) $\frac{1}{21}$ (d) $\frac{1}{30}$
7. Among the following numbers, which is the greatest?
 $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{4}{9}$
(a) $\frac{1}{3}$ (b) $\frac{1}{4}$ (c) $\frac{2}{4}$ (d) $\frac{2}{4}$
8. Which one is a factor of 0.5
(a) 0.25 (b) 0.125 (c) 0.30 (d) 0.55
9. Question
(a) Choice (b) Choice (c) Choice (d) Choice
10. Question
(a) Choice (b) Choice (c) Choice (d) Choice
11. Question
(a) Choice (b) Choice (c) Choice (d) Choice
12. Question
(a) Choice (b) Choice (c) Choice (d) Choice

13. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
14. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
15. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
16. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
17. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
18. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
19. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice
20. Question

(a) Choice

(b) Choice

(c) Choice

(d) Choice

Quote

Answer Key

1. (c) $\frac{1}{16}$

2. (b) 3

3. (c) 10^8

4. (b) 48

5. (c) 4

6. (c) $\frac{1}{21}$

7. (c) $\frac{2}{4}$
8. (b) 0.125

9. (a) Choice

10. (a) Choice

11. (a) Choice

12. (a) Choice

13. (a) Choice

14. (a) Choice
15. (a) Choice

16. (a) Choice

17. (a) Choice

18. (a) Choice

19. (a) Choice

20. (a) Choice