St John Baptist De La Salle Catholic School, Addis Ababa

Grade 9 Mathematics Entrance Examination

July, 2023

	5 dry, 2025		
Name:	Roll Number:	Section:	Time Allowed: 30 minutes
Multiple Choice Question	ns		
negative	ng statements is not true? number is always positive umber can be negative		
2. Consider an integer n , so selected at random, n is A. $\frac{1}{9}$ B. $\frac{1}{8}$ C. $\frac{1}{10}$	0?	That is the pro-	obability that when n is
angle?	also happens to be isosceles $^{0}, 45^{0}, 45^{0}$ C. $60^{0}, 60^{0}, 60^{0}$		
4. A quadrilateral is inscribed of the angle opposite to A. 70° B. 80° C. 90°	it? 0 ⁰ D. 100 ⁰	ngles measure	es 100° , what is the value
5. What is the value of $\sqrt{\chi}$ A. 2 B. $\sqrt{2}$ C. $2\sqrt{2}$	$\sqrt{\sqrt{\sqrt{1024}}}$?		
6. A 12m high pole casts a the tip of the shadow?		e distance fro	om the top of the pole to
7. Which one of the follows a right angled triangle? A 4 3 5 B 6 8 10 C		assigned to the	he lengths of the sides of

8. Which of the following is true? A. $\sqrt{a}=a^2$ B. $\sqrt{a}=a^{\frac{1}{3}}$ C. $a^{xy}=a^{xy}$ D. $a^xa^y=a^{\frac{y}{x}}$

9. For the expression $\frac{2y}{x}$, what are the limitations we have? A. $x \neq y$ B. $y \neq 0$ C. $x \neq 0$ D. $x \neq 1$ 10. If $a^{\frac{-1}{2}}=x$, where $a \not\in 0$ and $x \not\in 0$, which of the following equations gives a in terms of x?

A. $a=\frac{1}{\sqrt{x}}$ B. $a=\frac{1}{x^2}$ C. $a=\sqrt{x}$ D. $a=-x^2$

11. A farmer can pick 12 cabbages in 1 hour. Working at the same rate, how long in hours would it take two farmers to pick 48 cabbages?

A. 1 B. 2 C. 6 D. 4 E. 8

12. Which of the following is NOT a positive multiple of 9 + 3?

A. 3 B. 12 C. 24 D. 48 E. 60

13. Lydia can run at a pace of 6 miles per hour. Running at the same rate, how many miles can she run in 90 minutes?

A. 4 B. 6 C. 8 D. 9 E. 12

14. Two consecutive integers m and n are prime numbers. Which of the following is equal to mn?

A. 1 B. 2 C. 6 D. 9 E. 15

15. If x + 1 = 23, what is the value of 3x + 3?

A. 22 B. 46 C. 66 D. 69 E. 72

Answer Sheet

1._____ 6.____ 11.____

2._____ 7.____ 12.____

3._____ 8.____ 13.____

4._____ 9.____ 14.____

5._____ 10.____ 15.____