

St John Baptist De La Salle Catholic School Grade 9 Entrance Exam

Passkey Authentication

* Indicates required question

1. Enter passkey to start this exam. *

Information & Exam Directions

St John Baptist De La Salle Catholic School, Addis Ababa

GENERAL DIRECTIONS:

- If you finish before time is ended; you may go back and review.
- When time given is ended, you must immediately stop working and wait for further instructions.
- ANY attempt to cheat will automatically disqualify your results.
- Do not forget to click on **SUBMIT** when you are done.

2. Write your full name *

Part I: English Exam

3. **Read the following passage and answer the questions below:**

Passage: "Maria woke up early on a Saturday morning, excited for her first soccer game of the season. She quickly ate breakfast, put on her uniform, and headed to the field. Her teammates were already warming up. Maria joined them and felt a mix of nervousness and excitement. The coach gathered everyone and gave a pep talk, reminding them to have fun and do their best."

Why was Maria excited?

Mark only one oval.

- She had a test.
- She was going to a party.
- It was her first soccer game of the season.
- She was meeting a friend.

4. Maria _____ going to the soccer field.

Mark only one oval.

- is
- are
- will
- won't

5. The coach _____ a pep talk before every game.

Mark only one oval.

- give
- gives
- was give
- will have give

6. **Combine the following sentence using conjunctions (and, but, or):**

Do you want to go to the park? Do you want to go to the mall?

Mark only one oval.

- Do you want to go to the park and do you want to go to the mall?
- Do you want to go to the park but do you want to go to the mall?
- Do you want to go to the park or do you want to go to the mall?
- None of the above.

7. **Write the antonyms for the following words:**

Easy, Fast

Mark only one oval.

- Simple, Quick
- Difficult, Rapid
- Hard, Slow
- Effortless, Swift

8. I went to the store yesterday, but they _____ any bread left.

Mark only one oval.

- didn't have
- had
- have
- to have
- having

9. My favorite color is blue, _____ it reminds me of the ocean.

Mark only one oval.

- since
- although
- however
- therefore

10. We can go to the park _____ it doesn't rain today.

Mark only one oval.

- so
- if
- because
- but

11. Would you like _____ tea or coffee?

Mark only one oval.

some

any

a little

much

12. I _____ my homework every night.

Mark only one oval.

do always

always do

does always

always makes

13. They _____ to the beach tomorrow.

Mark only one oval.

go

are going

will go

goes

14. **Lisa loves spending time with her friends. They often go to the park after school to play games, chat, and have picnics.**

Lisa and her friends enjoy _____ at the park after school.

Mark only one oval.

- playing games
- studying
- chatting
- doing homework
- watching movies

15. My brother is the _____ person in my family.

Mark only one oval.

- taller
- tallest
- tallerest
- tall

16. We need to be _____ the environment.

Mark only one oval.

- protect
- to protect
- protecting
- protected

17. I would like to _____ a doctor when I grow up.

Mark only one oval.

- be
- being
- being to
- come

18. She was very _____ (*happy*) to see her friends.

Mark only one oval.

- sad
- bored
- excited
- tired

19. Her teammates _____ (*was/were*) already there.

Mark only one oval.

- was
- were
- be
- being

20. They live _____ a small town.

Mark only one oval.

- in
- on
- at
- under

21. **Replace the underlined words with the correct pronouns:**

The team won the game.

Mark only one oval.

- He
- She
- They
- It

22. **Fill in the blanks with the correct articles (a, an, the):**

She scored _____ winning goal of the game.

Mark only one oval.

- a
- an
- the
- None

23. **Mahlet:** I am very thirsty. Can you please bring me something to drink?

Biruk: Sure, I _____ you some water.

Mark only one oval.

- will get
- got
- am getting
- getted

24. The detective **scrutinized** the evidence carefully. What does the word underlined word mean?

Mark only one oval.

- Ignored complteley
- Destroyed evidence
- Examined closely
- Misunderstood

25. She was **ecstatic** about her superb exam results. What does the word "ecstatic" mean?

Mark only one oval.

- Sad
- Angry
- Bored
- Happy

26. The professor ***elaborated*** on the complex topic during the lecture. What does the word "elaborated" mean?

Mark only one oval.

- Simplified concepts
- Ignored questions
- Confused students
- Explained in detail

27. Despite the harsh criticism, the artist remained ***resolute*** in her vision. What does the word "resolute" mean?

Mark only one oval.

- Determined
- Indecisive
- Uncertain
- Confused

28. **In the sentence below, what does the word "indispensable" most likely mean?**

"For the soccer team, the coach's advice was indispensable, guiding them through every game."

Mark only one oval.

- Useless
- Optional
- Essential
- Unnecessary

Part II : Mathematics Exam

29. mathq1

Which expression is equivalent to $(2x^2 - 4) - (-3x^2 + 2x - 7)$?

A. $5x^2 - 2x + 3$

B. $5x^2 + 2x - 3$

C. $-x^2 - 2x - 11$

D. $-x^2 + 2x - 11$

Mark only one oval.

 A B C D

30. mathq2

$$\overline{\left(\frac{1}{2}x + \frac{3}{2}\right)\left(\frac{3}{2}x + \frac{1}{2}\right)}$$

The expression above is equivalent to $ax^2 + bx + c$, where a , b , and c are constants. What is the value of b ?

Mark only one oval.

2.5

5.2

1

4

31. mathq3

What is the length of one side of a square that has the same area as a circle with radius 2 ?

A. 2

B. $\sqrt{2\pi}$ C. $2\sqrt{\pi}$ D. 2π

Mark only one oval.

 A B C D

32. mathq4

A right circular cone has a volume of $\frac{1}{3}\pi$ cubic feet and a height of 9 feet. What is the radius, in feet, of the base of the cone?

A. $\frac{1}{3}$

B. $\frac{1}{\sqrt{3}}$

C. $\sqrt{3}$

D. 3

Mark only one oval.

 A B C D

33. mathq5

A rectangle has a length of **13** and a width of **6**. What is the perimeter of the rectangle?

A. **12**

B. **26**

C. **38**

D. **52**

Mark only one oval.

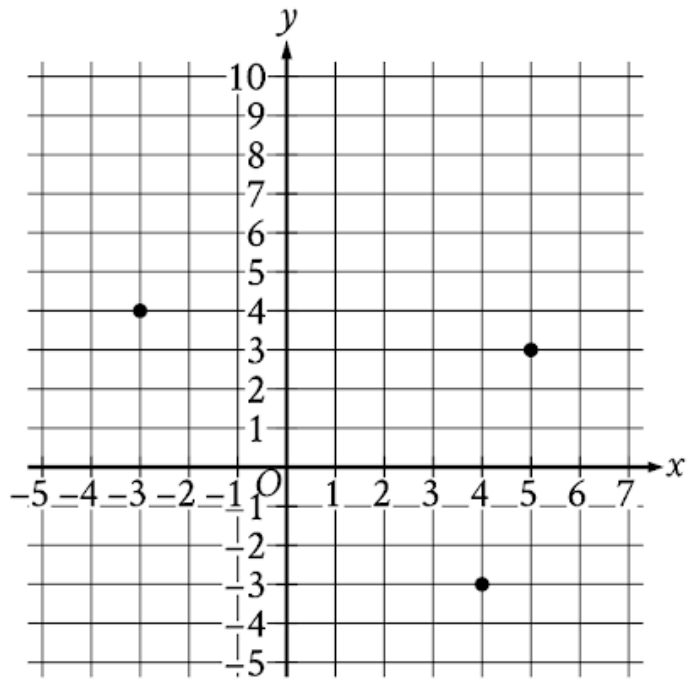
A

B

C

D

34. mathq6



What is the area, in square units, of the triangle formed by connecting the three points shown?

Mark only one oval.

5.4

24.5

49

200

35. $5G + 45R = 380$

At a school fair, students can win colored tokens that are worth a different number of points depending on the color. One student won **G** green tokens and **R** red tokens worth a total of points. The given equation represents this situation. How many more points is a red token worth than a green token?

Mark only one oval.

20

40

10

30

36. mathq8

If $\frac{1}{2}x - \frac{1}{6}x = 1$, what is
the value of x ?

A. -4 B. $\frac{1}{3}$

C. 3

D. 6

Mark only one oval.

 A B C D

37. mathq9

In the xy -plane, the graph of $y = x + 3$ intersects the graph of $y = 2x - 6$ at the point (a, b) . What is the value of a ?

A. 3

B. 6

C. 9

D. 12

Mark only one oval.

 A B C D

38. mathq10

In the xy -plane, line k passes through the points $(0, -5)$ and $(1, -1)$. Which equation defines line k ?

A. $y = -x + \frac{1}{4}$

B. $y = \frac{1}{4}x - 5$

C. $y = -x + 4$

D. $y = 4x - 5$

Mark only one oval.

 A B C D

39. mathq11

$y \leq x + 7$ $y \geq -2x - 1$ Which point (x, y) is a solution to the given system of inequalities in the xy -plane?

A. $(-14, 0)$

B. $(0, -14)$

C. $(0, 14)$

D. $(14, 0)$

Mark only one oval.

 A B C D

40. Ken is working this summer as part of a crew on a farm. He earned \$8 per hour for the first 10 hours he worked this week. Because of his performance, his crew leader raised his salary to \$10 per hour for the rest of the week. Ken saves 90% of his earnings from each week. What is the least number of hours he must work the rest of the week to save at least \$270 for the week?

Mark only one oval.

38

33

22

16

41. mathq13

The function f is defined by $f(x) = x^3 + 9$. What is the value of $f(2)$?

A. 14

B. 15

C. 17

D. 18

Mark only one oval.

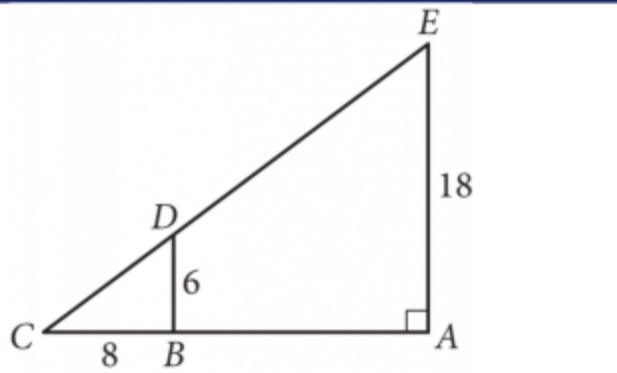
A

B

C

D

42. mathq14



In the figure above, \overline{BD} is parallel to \overline{AE} .

What is the length of \overline{CE} ?

Mark only one oval.

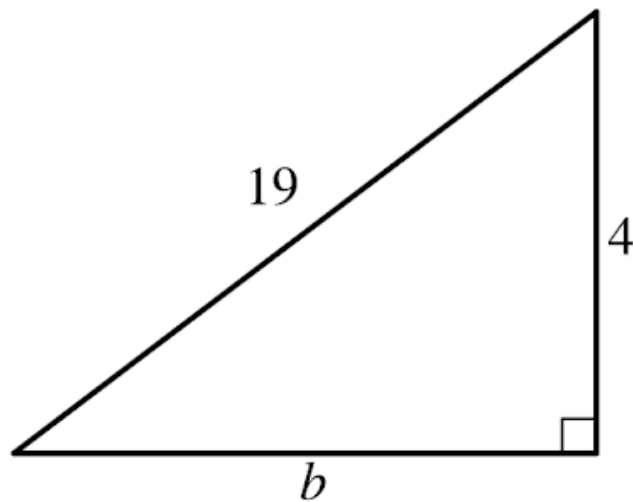
36

22

30

10

43. mathq15



Note: Figure not drawn to scale.

Which equation shows the relationship between the side lengths of the given triangle?

A. $4b = 19$

B. $4 + b = 19$

C. $4^2 + b^2 = 19^2$

D. $4^2 - b^2 = 19^2$

Mark only one oval.

A

B

C

D

Part III : General Science Exam

44. Which unit is used to measure electric current in the International System of Units (SI)?

Mark only one oval.

- Ampere
- Volt
- Ohm
- Coulomb

45. In a controlled experiment, which variable is changed by the scientist to test its effects?

Mark only one oval.

- Dependent variable
- Independent variable
- Controlled variable
- Extraneous variable

46. Which of the following best describes a mixture?

Mark only one oval.

- A substance made up of only one type of atom
- A combination of two or more substances that are not chemically bonded
- A substance with a fixed ratio of elements
- A substance that can only be separated by chemical means

47. Who proposed that matter is composed of small, indivisible particles called "atomos"?

Mark only one oval.

- Aristotle
- Dalton
- Democritus
- Plato

48. Which of the following is different from the rest?

Mark only one oval.

- Electron
- Proton
- Neutron
- Photon

49. What type of bond involves the sharing of electron pairs between atoms?

Mark only one oval.

- Ionic bond
- Covalent bond
- Hydrogen bond
- Metallic bond

50. Which of the following is a characteristic of ionic compounds?

Mark only one oval.

- High melting and boiling points
- Poor electrical conductivity in solution
- Malleability
- Low solubility in water

51. What is the functional group in alcohols?

Mark only one oval.

- Amino group
- Carbonyl group
- Hydroxyl group
- Carboxyl group

52. Which of the following is an example of an inorganic compound?

Mark only one oval.

- Methane (CH_4)
- Ethanol ($\text{C}_2\text{H}_5\text{OH}$)
- Sodium chloride (NaCl)
- Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$)

53. What is produced when an acid reacts with a base?

Mark only one oval.

- Water and salt
- Carbon dioxide and water
- Salt and hydrogen gas
- Hydrochloric acid and water

54. Which layer of the skin contains the melanocytes responsible for skin pigmentation?

Mark only one oval.

- Epidermis
- Dermis
- Hypodermis
- Subcutaneous layer

55. What type of bone cells are responsible for breaking down bone tissue?

Mark only one oval.

- Osteoblasts
- Osteoclasts
- Osteocytes
- Chondrocytes

56. Which type of muscle is found in the walls of hollow organs?

Mark only one oval.

- Skeletal muscle fibers
- Cardiac muscle fibers
- Smooth muscle fibers
- Striated muscle fibers

57. Where does the majority of nutrient absorption occur in the human digestive system?

Mark only one oval.

- Stomach
- Small intestine
- Large intestine
- Esophagus

58. What is the primary muscle involved in the process of breathing?

Mark only one oval.

- Intercostal muscles
- Diaphragm
- Abdominal muscles
- Pectoral muscles

59. Which blood vessel carries oxygenated blood from the lungs to the heart?

Mark only one oval.

- Aorta
- Pulmonary artery
- Pulmonary vein
- Vena cava

60. Where does fertilization typically occur in the human female reproductive system?

Mark only one oval.

- Ovary
- Uterus
- Fallopian tube
- Cervix

61. Which term describes a close relationship between two species where both benefit?

Mark only one oval.

- Parasitism
- Mutualism
- Commensalism
- Competition

62. What is the main goal of sustainable development?

Mark only one oval.

- To maximize economic growth
- To meet the needs of the present without compromising the ability of future generations to meet their own needs
- To reduce human population
- To eliminate the use of natural resources

63. Which planet in the solar system has the largest number of moons?

Mark only one oval.

- Earth
- Mars
- Jupiter
- Saturn

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