

## Literacy

Question 1.

1. Complete this simile. My love for you is as deep as the ....

- A Well
- B Ocean
- C Underground
- D Valley

Question 2.

Give one word that can replace the two underlined words in the sentences I and II

I- the message was written on a piece of paper

II- Mohammed Ali got into a fight with his classmate

- A. Grab
- B. Box
- C. Scrap
- D. Brush

Question 3.

Choose the odd one out:

- A. Entanglement
- B. Imbroglia
- C. Harmony
- D. Disagreement

Question 4.

What is the antonym for the word abate?

- A Purify
- B Intensify
- C Lessen
- D Moderate

# Quantitative Reasoning

## Question 5

The area of Square  $X$  is  $\sqrt{5}$  times as much as the area of Square  $Y$ . The side of Square  $X$  is  $z$  times as much as the side of Square  $Y$ . What is the value of  $z$ ?

- A. 0.2
- B. 5
- C.  $\sqrt{5}$
- D.  $\sqrt{\sqrt{5}}$
- E.  $\sqrt{2}$

## Question 6

In a school,  $\frac{1}{2}$  of the boys are as many as  $\frac{3}{5}$  of the girls. Find the the number of girls in the school if there are 1540 students in the school.

- A. 925
- B. 880
- C. 840
- D. 720
- E. 700

## Question 7

Study the number pattern, then find the next number:

1, 2, 4, 12, 44, 332, \_\_\_\_\_

- A 568
- B 1434
- C 3421
- D 4204

## Question 8

Mr Chee wants his student to guess his age. Mr Chee is 38 years older than his student. Mr Chee will be three times as old as his student after 5 years. How old is Mr Chee now?

- A. 57
- B. 52
- C. 19
- D. 14
- E. 62

## Question 9

To fence 300 metres, it cost \$630. How much will it cost to fence a rectangular field with dimension of 720m by 280m?

- A. \$1980 B. \$423360 C. \$2100 D. \$4220 E. \$420

### Question 10

6 years ago, the ratio of John's age to his brother's age was 3 : 5. This year, the ratio of John's age to his brother's age is 3 : 4. How old is John now?

A. 24 B. 12 C. 18 D. 16 E. 9

## Scientific Literacy

### Question 11

A 'fit' person is characterised by someone who exercises on a regular basis. One of the ways how a person is deemed 'fit' is how quickly a quickened heartbeat rate returns to the resting heartbeat rate after a bout of vigorous activity. The faster it is for a quickened heartbeat rate returns to the resting heartbeat rate after a bout of vigorous activity, the more 'fit' the person is. Which of the following statements is true for a 'fit' person?

- A 'Fit' people replace their oxygen reserves quickly.
- B 'Fit' people will always increase their heartbeat slower than not as 'fit' people.
- C 'Fit' people remove excessive lactic acid from their bodies quickly.
- D 'Fit' people always have enough oxygen in their blood for their muscles to respire aerobically

### Question 12

Hot-air balloons are a way of transport for tourists to enjoy the scenery of the countryside.

Which of the following statements are true of how hot-air balloons work?

- A The mass of gas particles inside the balloon is relatively smaller than the outside, and therefore lighter.
- B Fire used to warm the gas inside the hot-air balloon causes the volume of gas to increase.
- C The gas particles inside the hot-air balloon are relatively smaller than the outside, and therefore lighter.
- D As the gas inside the hot-air balloon loses heat to the surroundings, the gas becomes denser and the hot-air balloon will descend.

### Question 13

The following statements describe the process of a substance undergoing a change of state.

Energy is absorbed by the particles. At first, the particles only rolled over each other at random.

Sometime later, the particles moved around very fast. Initially, the particles were close together.

Then after a while, all the particles were far apart and widely spaced. Which of following

processes is described by the statements above?

- A. boiling B. condensation C. sublimation D. freezing

#### Question 14

An experiment was set-up where 1 g of sodium metal was placed into 10 g of water in a beaker. During the reaction, the sodium immediately caught fire and got extinguished when there was no more sodium metal left. At the end of the reaction, the reaction was weighed, and was found to be not 11 g. What could be the explanation for the difference in the weight of the products and the weight of the reactants?

- A. Fire contains mass.
- B. Energy from the fire is converted into atoms which contributes mass.
- C. The reaction that occurred released mass from the set-up into the surroundings.
- D. The weighing machine was faulty after the reaction.

#### Question 15

Which of the following will allow a swimmer to move faster underwater?

- A Putting on swimwear that mimics shark's skin.
- B Putting on flippers on both of the swimmer's feet.
- C Putting on weight such that he has a bigger waistline.
- D Putting his arms above the head in the direction of his movement.

#### Question 16

Why can a person not swallow food and talk at the same time?

- A The brain cannot control two activities at the same time.
- B. In order to speak, air must come through the pharynx to form sounds.
- C. In order to swallow, the epiglottis must close off the larynx (trachea).
- D. Both B and C are correct.
- E. None of the above

## Social Literacy

#### Question 17.

How many months are in the Islamic Calendar?

- A 10 months   B 15 months   C 5 months   D 12 months

#### Question 18.

3. How many members make up the Ghana Council of state?

- A 24 members   B 36 members   C 11 members   D 275 members

Question 19.

Which people celebrate the Ngmayem festival?

- A Krobo
- B Nsawam
- C Bawku
- D Ada

Question 20.

Which country will be hosting the next world cup?

- A Saudi Arabia
- B Qatar
- C Malaysia
- D United Arab Emirates

## Literacy

Question 1.

Complete this simile. Kwame is as happy as a ....

- A Donkey
- B Dolphin
- C Lark
- D monkey

Question 2.

Give one word that can replace the highlighted words in the sentences

I- He is frank in his dealings with others

II- the offer for the Job is still available

- A Due
- B Open
- C Honest
- D Plain

Question 3.

Choose the odd one out:

- A Petulant
- B Affable
- C Surly
- D Moody

Question 4.

What is the best synonym for the word abate

- A Purify
- B Intensify
- C Lessen
- D Bite

# Quantitative Reasoning

## Question 5

Bob has a circus of bees and scorpions, which have 6 legs and 8 legs, respectively. Given that Bob has 30 animals in total, and these animals have 216 legs altogether, how many bees does Bob have in his circus?

(A) 4 (B) 8 (C) 16 (D) 12

## Question 6

A mango is sliced into three pieces such that the second piece is three times as large as the first, and the third is twice as large as the second. What fraction of the whole mango is the second piece? Express your answer as a common fraction.

A  $\frac{1}{5}$

B  $\frac{2}{5}$

C  $\frac{3}{10}$

D  $\frac{1}{2}$

## Question 7

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## Question 8

Compute the sum of the digits of the product 455 and 1331.

A 22 B 43 C 13 D 24

## Question 9

On July 30, 2018, in Champaign, Illinois, the sun rose at 5:49 AM and set at 8:08 PM.

For how many minutes was the sun in the sky?

A 922 B 1039 C 979 D 859

## Question 10

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- D. Both B and C are correct.
- E. None of the above

## Social Literacy

Question 17.

Lima is the capital city of which country?

- A Malaysia
- B South Korea
- C Peru
- D Portugal

Question 18.

Who is the minister of Tourism Art and culture?

- A Awal Mohammed
- B Catherine Aferkon
- C Elizabeth Agyeman
- D Dzifa Gomashie

Question 19.

Which people celebrate the Asafotufiam festival?

- A Krobo
- B Nsawam
- C Bawku
- D Ada

Question 20.

Who is the current 400m track world record holder?

A Wayde van Niekerk

B Michael Johnson

C Usain Bolt

D Michael Norman

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