



EXAMINATIONS COUNCIL OF ESWATINI

Eswatini Primary Certificate

SCIENCE**513/01****Paper 1 Multiple Choice****October/November 2019****1 hour****Additional Materials:** Multiple Choice Answer Sheet

Soft clean eraser

Soft pencil (type B or HB recommended).

READ THESE INSTRUCTIONS FIRST

Write in soft pencil.

Write your Centre number, candidate number and name on the Answer Sheet in the spaces provided unless this has been done for you.

There are **forty** questions on this paper. Answer **all** questions. For each question there are four possible answers **A, B, C** and **D**. Choose the **one** you consider correct and record your choice in **soft pencil** on the separate Answer Sheet.

Read and follow the instructions on the separate Answer Sheet carefully.

Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

Any rough work should be done on this Question Paper and **not** on the Answer Sheet.

The total of the marks for this paper is 40.

This document consists of **14** printed pages and **2** blank pages.

1 Mimi is not feeling well. Her mother has given her a solution made from ash to drink.

What is Mimi suffering from?

- A earache
- B headache
- C toothache
- D stomachache

2 The diagram below shows an invertebrate.



What type of invertebrate is shown above?

- A an insect
- B an arachnid
- C a myriapod
- D a crustacean

3 Which substances are absorbed by plants from the soil?

- A nitrates, salt, water
- B proteins, sugar, salts
- C sugar, vitamins, water
- D nitrates, nutrients, proteins

4 What is the suitable scientific description for the following sources of light?

candle	torch	lamp
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- A artificial
- B modern
- C unnatural
- D man-made

5 The diagram shows an equipment used in the laboratory.



What is the use of the equipment?

- A to put out fire
- B to use as stove gas
- C to make hot welding heat
- D to help sick people breathe

6 You want to study crystals.

Which of the following liquids will give you large clear crystals?

- A weak salt solution
- B strong salt solution
- C weak acid solution
- D strong acid solution

7 Which of the following is **not** a flowering plant?

- A sugar cane plant
- B pine tree
- C bean plant
- D maize plant

8 What happens to blue litmus paper when it is dipped into a solution of tartaric acid?

- A it turns red
- B it turns pink
- C turns green
- D turns purple

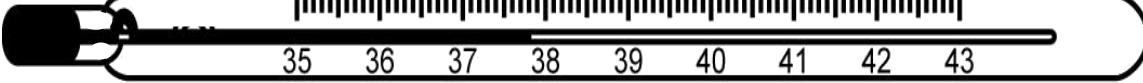
9 Which is the suitable unit that you can use to measure the time taken by a snail to move a distance of 5 metres?

- A minutes
- B seconds
- C metres/minute
- D seconds/minute

10 Which is the best definition for mass?

- A The weight of an object.
- B The amount of matter in an object.
- C The number of particles in an object.
- D The measure of how heavy an object is.

11 What is the name of the instrument shown below?



- A kink thermometer
- B clinical thermometer
- C laboratory thermometer
- D short range thermometer

12 A Grade 7 learner rubs a plastic comb hard against his jersey to give a charge. He notices that the comb also becomes warmer.

Which process causes the comb to be charged?

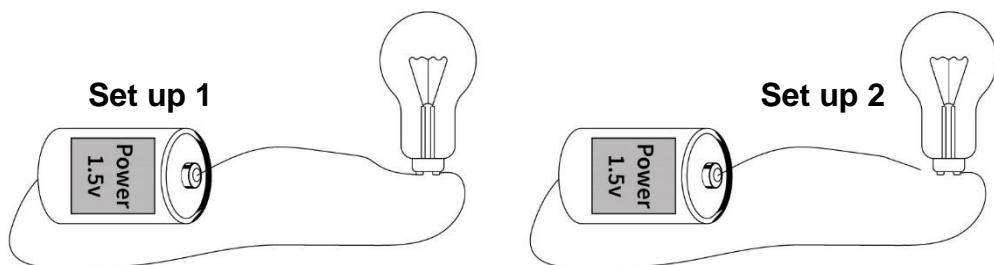
- A friction
- B heating
- C motion
- D touching

13 Lightning is produced as particles in clouds rub against each other creating charges and huge electric sparks.

What type of electricity causes the spark to be produced?

- A current electricity
- B natural electricity
- C solar electricity
- D static electricity

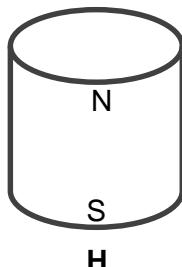
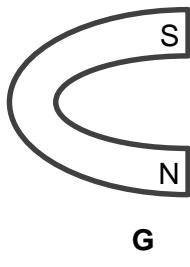
14 Grade 6 learners connect a lamp to a cell. Two groups set up their connections as shown in the diagram.



Which pair of words correctly describe the two set ups?

Set up 1	Set up 2
A complete circuit	incomplete circuit
B incomplete circuit	complete circuit
C closed circuit	open circuit
D open circuit	closed circuit

15 The diagram shows three types of magnets labelled **G**, **H**, and **I**.



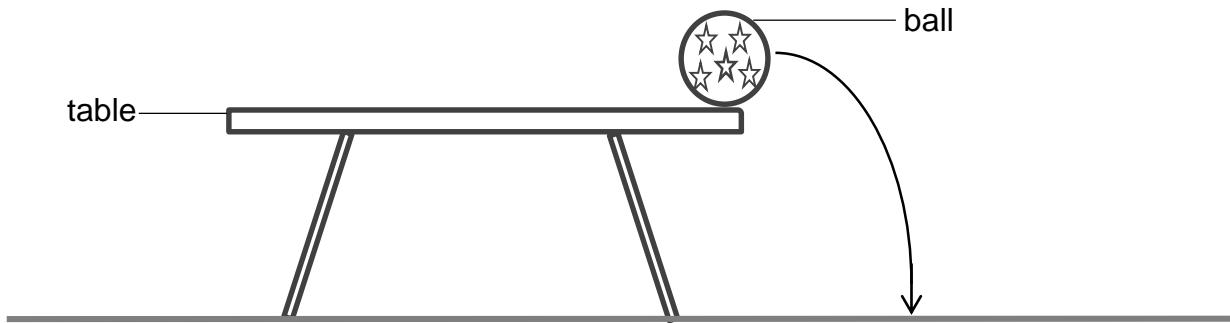
What are the names of the magnets?

	G	H	I
A	curved	round	bar
B	horse shoe	cylindrical	bar
C	curved	cylindrical	flat
D	horse shoe	cylindrical	flat

16 Which of the following is an example of renewable energy?

- A** coal
- B** wind
- C** petrol
- D** handigas

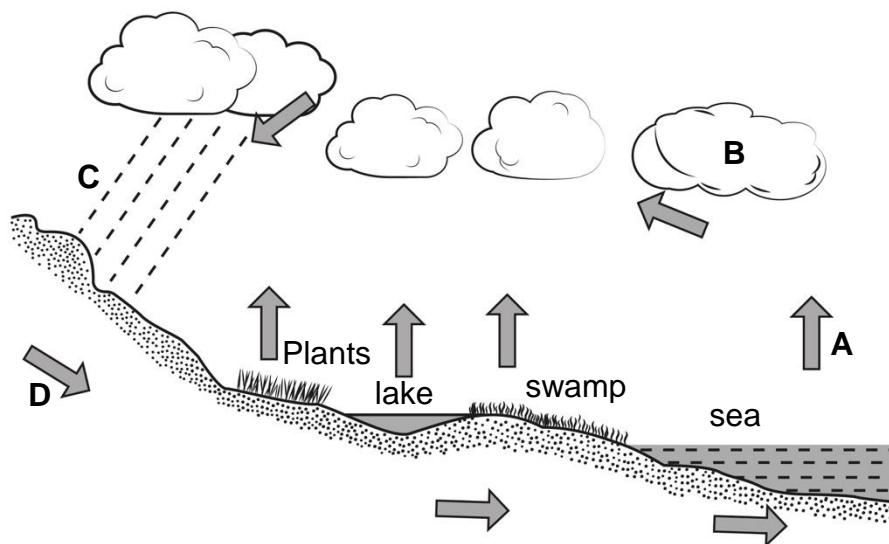
17 Popo drops a ball from the table as shown in the diagram below.



What type of energy does the ball possess while still on the table?

- A motion
- B kinetic
- C stored
- D potential

18 The diagram below shows a water cycle.



Which letter A, B, C or D represents condensation in the water cycle?

19 In which part of the body do you find a fixed joint?

- A elbow
- B knee
- C neck
- D skull

20 Which part of the reproductive system is correctly matched with its function?

part	function
A testis	stores sperm
B ovary	produces eggs
C oviduct	receives sperm
D sperm duct	passage for urine

21 A small stone has a volume of 50 cm^3 and a mass of 250 g.

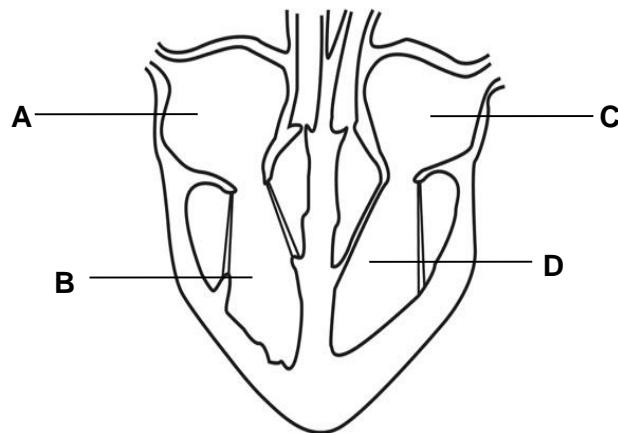
What is the density of the stone?

- A 0.25 g/cm^3
- B 5 g/cm^3
- C 200 g/cm^3
- D 300 g/cm^3

22 What happens to blood when it passes through the lungs?

- A Oxygen combines with the blood.
- B Carbon dioxide combines with the blood.
- C Blood transports waste products.
- D New blood cells are added to it.

23 The diagram shows a cross section of the heart.



Which part of the heart **A**, **B**, **C** or **D** is the right ventricle?

24 The internet enables us to learn about what is happening around the world.

Children people sometimes use the internet in a dangerous way.

Which is a dangerous practice of using the internet?

- A** Sending pictures to strangers.
- B** Sharing ideas with your friends.
- C** Reading news about what celebrities do.
- D** Exchanging school work with classmates.

25 Which practice leads to air pollution?

- A** using solar energy for cooking
- B** motor vehicles releasing fumes
- C** breathing in and out of animals
- D** photosynthesis taking place during day

26 Which of the following is **not** a source of current electricity?

- A car battery
- B cell phone
- C clock battery
- D lemon battery

27 Which test is used to identify carbon dioxide?

- A Put a lighted splint in the gas.
- B Put wet red litmus paper in the gas.
- C Put dry blue litmus paper in the gas.
- D Bubble the gas through limewater.

28 Which of the following is **not** an important function of light to plants and animals.

- A Light enables animals to see.
- B Light enables plants to make food.
- C Light causes plants to be green.
- D Light enables animals to have energy.

29 All substances can exist in three different states of matter.

What is the correct state of matter for water vapour, ice and milk?

	water vapour	ice	milk
A	liquid	solid	gas
B	gas	liquid	solid
C	solid	gas	liquid
D	gas	solid	liquid

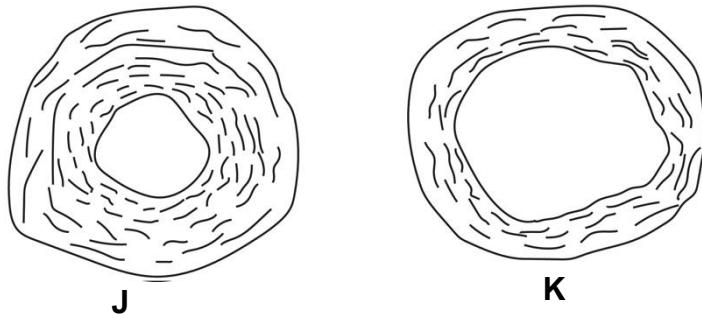
30 The following is a list of elements.

copper	hydrogen	oxygen
iron		

Which of the elements listed above supports combustion?

- A copper
- B hydrogen
- C oxygen
- D iron

31 The diagram shows two blood vessels J and K.



What is the name of the blood vessels labelled J and K?

	J	K
A	artery	capillary
B	artery	vein
C	vein	artery
D	capillary	vein

32 What is the main function of white blood cells?

- A They carry oxygen around the body.
- B They protect the body against infection.
- C They prevent loss of blood from a wound.
- D They carry carbon dioxide around the body.

33 The diagram shows Lunga listening to very loud music using earphones.



Which statement is correct about listening to loud music like Lunga does.

- A It makes a person unable to stop doing it.
- B It makes a lot of noise for the neighbours.
- C It makes him to be more sensitive to sound.
- D It damages the eardrum making hearing to be poor.

34 Which of the apparatus can be used to measure exactly 25 cm^3 of water?

- A beaker
- B measuring cylinder
- C conical flask
- D test tube

35 The diagram shows a food chain.

grass → caterpillar → bird

What is the name given to the caterpillar in the food chain?

- A carnivore
- B herbivore
- C omnivore
- D producer

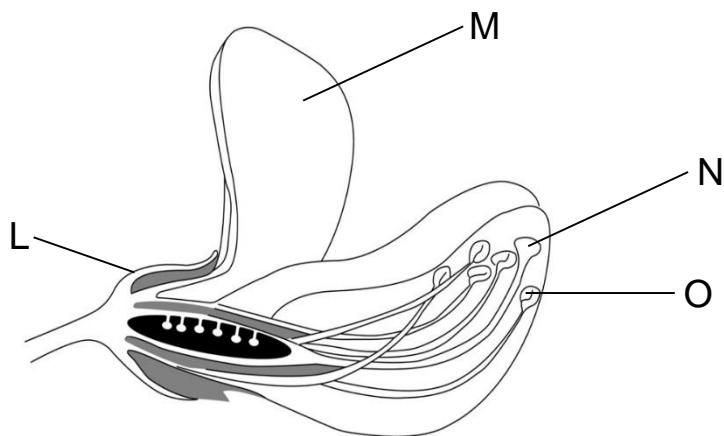
36 Which practice is likely to lead to global warming?

- A Mining coal from an old mine.
- B Planting large sugar cane fields.
- C Using electricity heaters in winter.
- D Clearing large forests to build houses.

37 Which statement is true about reproduction?

- A Plants produce flowers that can be used by human beings.
- B Reproduction enables humans to produce children that are identical to them.
- C Animals like chickens can reproduce both sexually and asexually.
- D Organisms produce young ones to ensure continuity of living organisms.

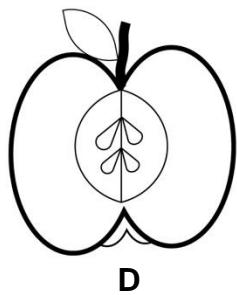
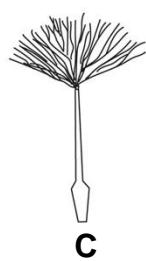
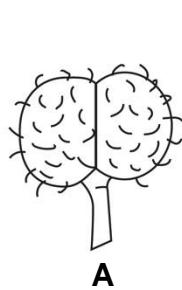
38 The diagram shows a flower.



Which parts are correctly named?

	L	M	N	O
A	petal	sepal	stigma	anther
B	sepal	petal	stigma	anther
C	petal	sepal	anther	stigma
D	sepal	petal	anther	stigma

39 Which fruit is dispersed by wind?



40 Which acidic substance is commonly found at home?

- A eno
- B milk
- C soap
- D vinegar

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