

Examination code:

THE REPUBLIC OF SOUTH SUDAN

JUBA INTER-SCHOOLS JOINT MOCK EXAMINATIONS

2023

Subject: Science

Time: 2 Hours 30 Minutes

INSTRUCTIONS:

Read the following instructions carefully before answering any question.

1. Write your examination code in the box provided above.
2. Your name and the school name **MUST** not appear in this paper.
3. Read the questions carefully before answering.
4. All drawings must be done in pencils
5. All sections are compulsory
6. All your answers must appear on the same paper.

THIS TABLE IS FOR EXAMINER'S USE ONLY

Sections	Questions	Marks obtained	Marked by	Checked by
A	1			
	2			
	3			
	4			
B	1			
	2			
	3			
	4			
	5			
	6			
Total	100 Marks			

SECTION "A" (40 MARKS)

Question one (10mk)

Circle the correct answer from the given alternatives

1. Which of the following is a magnetic material?
 - A. Paper
 - B. Rubber
 - C. Wood
 - D. Iron
2. Medicines in form of tablets, syrups or injections which have been given at the health centre are known as _____
 - A. Curative drugs
 - B. Preventive drugs
 - C. Diagnostic drugs
 - D. Drugs of abuse
- ~~3. The process by which plants lose excess water to the atmosphere through the stomata of their leaves is called _____
 - ~~A. Germination~~
 - ~~B. Transpiration~~
 - ~~C. Photosynthesis~~
 - ~~D. Evaporation~~~~
- ~~4. Where does fertilization take place in mammals?
 - ~~A. Vagina~~
 - ~~B. Stomach~~
 - ~~C. Cervix~~
 - ~~D. Fallopian tube~~~~
- ~~5. Which one of the following is a traditional method of preserving food?
 - ~~A. Smoking~~
 - ~~B. Freezing~~
 - ~~C. Canning~~
 - ~~D. Tinning~~~~

6. Which of the following is not true about bases?
- A. They neutralize acids
 - B. They have a bitter taste
 - C. They have a PH of less than 7
 - D. Some of them are corrosive
7. ~~_____ is a machine that warms the eggs~~
- ~~A. Hen~~
 - ~~B. Generator~~
 - ~~C. An incubator~~
 - ~~D. Fire~~
8. Ash is eaten by people with heart burn why?
- A. Because ash is a base and can reduce heart burn
 - B. Because ash is acidic
 - C. Because ash can increase heart burn
9. Aflatoxin occurs in foods that are not properly stored such as;
- A. Maize
 - B. Sugar cane
 - C. Yams
 - D. Carrots
10. ~~An area of darkness formed is called _____~~
- ~~A. Opaque~~
 - ~~B. Translucent~~
 - ~~C. Transparent~~
 - ~~D. Shadow~~

Question two (10 marks)

Write **TRUE** in front of a correct statement and **FALSE** in front of a wrong statement

11. An acid found in our body is known as sulphuric acid (_____)
12. An electromagnet is magnet made using water. (_____)
13. ~~The green colouring matter found in the leaves of plants is called chlorophyll (_____)~~
14. ~~Home sanitation can be defined as the cleanliness of a person's body. (_____)~~

15. ~~An echo is a reflected sound ()~~
16. Cocaine is a drug obtained from tobacco. ()
17. Air has weight and occupies space. ()
18. ~~Carbon dioxide is used in fire extinguishers because it does not support burning.~~
()
19. ~~The oxygen we breathe in is about 21% of the total mixture of air ()~~
20. Animals that have back bones are called vertebrates ()

Question three (10 marks)

Fill in the blank spaces with correct or suitable words

21. _____ is a collection of light rays.
22. ~~Materials that do not allow electricity or heat to pass through them are called~~

23. _____ is a space that do not have matter.
24. A _____ is a piece of metal which has the ability
to attract other magnetic materials.
25. ~~Organisms that depend on other living organisms for food and shelter are called~~

26. The force that opposes motion between two bodies is called _____
27. The period between conception and birth is called _____
28. A chemical compound that speeds up the reaction of food in the body is called

29. ~~The burning of food to produce heat, energy and water vapour in the body is termed as~~

30. The freely suspended _____ always points in north, south direction.

Question four (10 marks)

Match the words in column **A** with their corresponding statements in column **B** by writing those in column **A** in the answer column

S/No	Column A	Answer column	Column B
1.	Hygiene		is the union of a male and a female gametes to form a zygote
2.	Planet		is the general cleanliness of our body
3.	Fertilization		Jupiter
4.	Pitch		form energy produced by flow of electrons
5.	645 days		the highness or lowness of sound
6.	Electricity		gestation period of an elephant
7.	Sunshine recorder		is the study of weather
8.	Music		found in lemons and wild fruits
9.	Citric acid		it is used for measuring sunshine
10.	Meteorology		is an organized sound

SECTION "B" (60 MARKS)

Question one (10 marks)

Define the following terms

1. Desertification

2. Twin

3. Base

4. Magnetism

5. Interdependence

6. Weather

7. Constellations

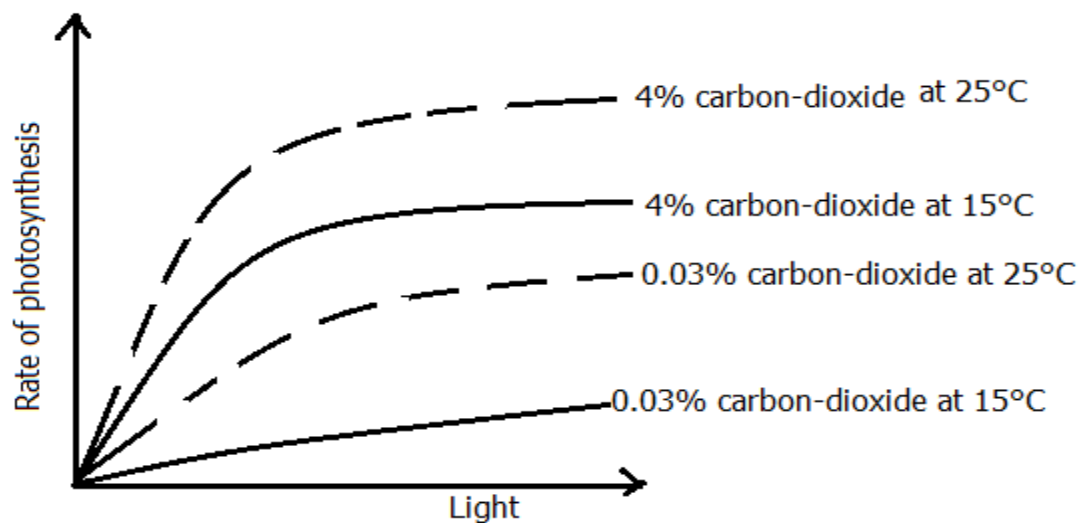
8. Light

9. Germination

10. Recycling

Question two (10 marks)

The graph below shows how the rate of photosynthesis is affected by different conditions



1. Define the term photosynthesis

2. Apart from sunlight, mention any other two factors that affect the rate of photosynthesis.

- i.

- ii.

3. Describe the patterns you can identify in the graph above in comparison to photosynthesis

4. Give any two differences between photosynthesis and respiration.

- i.

- ii.

5. What is a flower?

6. ~~How do we call;~~

i. ~~Male part of a flower?~~ _____

ii. ~~Female part of a flower?~~ _____

7. What is pollination?

Question three (10 marks)

1. What is digestion?

2. What name is given to the acid found in the stomach?

3. How do we call an enzyme found in the stomach?

4. List down the two types of digestion

i. _____

ii. _____

5. a) Give the meaning of the term disorder as applied in digestion

b) List down any two disorders of the digestive system

i. _____

ii. _____

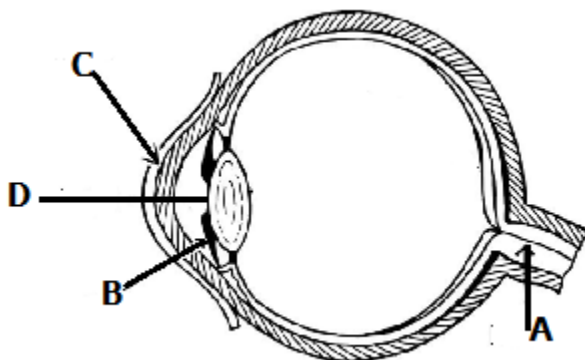
c) How can you control or prevent the above mentioned disorders?

i. _____

ii. _____

Question four (10 marks)

Below is the diagram of an eye. Use it to answer the following questions



1. Name the parts marked

- A _____
- B _____
- C _____
- D _____

2. Give any two diseases of a human eye.

- i. _____
- ii. _____

3. State any one similarity between the eye and a lens camera.

4. In the space provided below, describe an experiment to show that light travels in a straight line

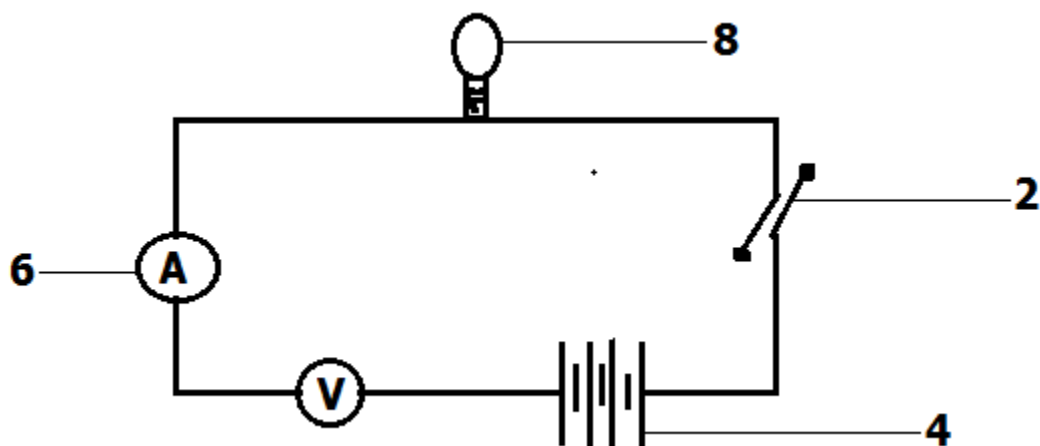
i. Requirements (1mk)

ii. Illustration (1mk)

iii. Conclusion (1mk)

Question five (10 marks)

Study the figure below and answer the following questions



1. Name the parts labelled with numbers; 2, 4, 6 and 8

2 _____

4 _____

6 _____

8 _____

2. What scientific name is given to the above diagram?

3. Give the functions of the parts marked 2 and 8
i. 2 _____
ii. 8 _____
4. What energy change takes place in part marked 8 when part marked 2 is turned on?

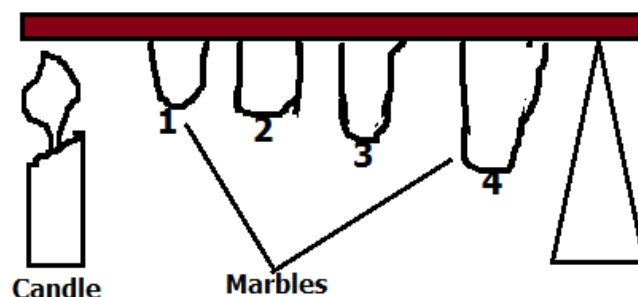
5. How is electricity important to people?

6. Write down one material that uses electricity at home.

Question six (10 marks)

1. What is matter?

2. Below are marbles on a metal rod on the melted candle



- a) What will happen to the metal rod?

- b) Suggest a suitable name given to the process above

- c) Which of the above marbles will melt first?

3. a) What are heat conductors?

b) Give any two examples of heat conductors

i. _____

ii. _____

4. a) write down any one property of matter

b) With the help of our environment, write down any two states of matter you know

i. _____

ii. _____