

DOYEN PUBLISHERS

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

END TERM I 2025 JOINT EXAM

GRADE 9 – INTEGRATED SCIENCE 905/1

(Paper 1: Theory)



Time: 1 hour 40 mins

NAME: _____

SCHOOL: _____

STREAM: _____ DATE: _____

INSTRUCTIONS

- Write your name, school, stream and date in the spaces provided above.
- This paper consists of **two** sections: **A** and **B**.
- Section A** comprises Multiple Choice Questions numbered **1** to **30**.
- Section B** comprises structured questions number **31** to **35**.
- Answer **ALL** the questions in section A in the table provided below.
- Answer **ALL** the questions in section B in the spaces provided in this QUESTION PAPER.
- Do **NOT** remove any page from this question paper. Answer **ALL** the questions in English.

ANSWER SHEET - SECTION A

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.

21.	22.	23.	24.	25.	26.	27.	28.	29.	30.

LEARNER'S SCORE

SCORES		TOTAL
A (Out of 30)		
B (Out of 40)		

This paper consists of 7 printed pages. Candidates should check the question paper to confirm that all pages are printed as indicated and that no questions are missing.

SECTION A (30 marks)

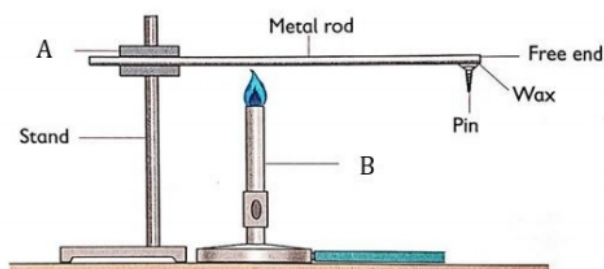
1. The nucleus of an atom comprises of:
 - A. protons and electrons
 - B. protons and neutrons
 - C. electrons and electrolytes
 - D. neutrons and protocols
2. _____ is the first element of the periodic table.
 - A. Lithium
 - B. Beryllium
 - C. Hydrogen
 - D. Helium
3. Which of the following is **NOT** an inert gas.
 - A. Oxygen
 - B. Argon
 - C. Helium
 - D. Neon
4. Grade 9 learners were asked to write the symbols of various symbols. They wrote the following:

Claire: Nitrogen – N
 Mercy: Sodium – Na
 Jacqueline: Calcium – K
 Andrea: Magnesium – Mg

Whose answer was **incorrect**?

 - A. Claire
 - B. Mercy
 - C. Jacqueline
 - D. Andrea
5. The property of metals that makes them reflect light on their surfaces is called _____.
 - A. lustre
 - B. reflection
 - C. refraction
 - D. shining

Grade 9 learners set up the experiment below to demonstrate thermal conductivity in metals. Study it and answer the questions that follow.



6. What happens when the metal rod is heat.
 - A. The metal rod expands and bursts.
 - B. Apparatus A melts down.
 - C. The wax melts instantly and the pin falls down.
 - D. The wax melts after some time and the pin falls down

7. Identify the laboratory apparatus marked A.
 - A. holder
 - B. stand
 - C. clamp
 - D. gripper
8. Identify the part of the Bunsen burner that is marked B.
 - A. chimney
 - B. collar
 - C. flame
 - D. airhole
9. Which of the following **cannot** be made from copper?



A.



C.



B.



D.

10. All the following materials **cannot** undergo rusting except:
 - A. plastics
 - B. screws
 - C. wood
 - D. stone
11. Which method of preventing rusting involves coating iron objects with a thin layer of chromium or tin using electricity.
 - A. electroplating
 - B. plastic coating
 - C. galvanizing
 - D. sacrificial protection

A learning studied the pH of different substances and recorded them in the table below. Study it and answer the questions that follow.

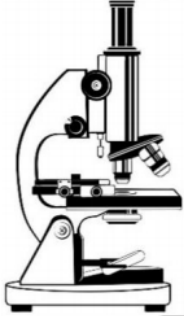
Substance	pH
Q	4
P	7
R	14
S	10
T	1

12. Which substance is most likely to be sulphuric acid?
 - A. P
 - B. R
 - C. S
 - D. T

13. Which substance is most likely to Hydrogen Hydroxide?
A. P B. R C. S D. T

14. Which substance is most likely to be water?
A. Q B. P C. R D. S

15. Identify the type of microscope drawn below.



- A. Leeuwenhoek single lens microscope
- B. Janssen compound microscope
- C. Modern compound microscope
- D. Modern electric microscope

16. Which part of a microscope quickly brings the image into rough focus by raising or lowering the body tube.

- A. Fine adjustment knob
- B. Coarse adjustment knob
- C. Body tube
- D. Nose piece

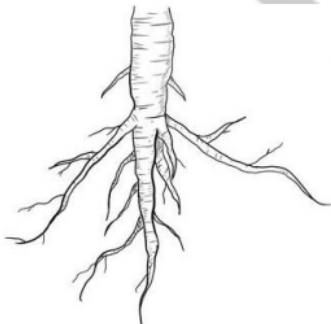
17. What is the process by which plants make their own food using sunlight?

- A. Respiration C. Photosynthesis
- B. Digestion D. Transpiration

18. Both the plant and animal cells have the following except:

- A. vacuole C. cytoplasm
- B. nucleus D. cell membrane

19. A learner drew the root below.



The root drawn is most likely to be that of

- A. sorghum C. beans
- B. maize D. sugarcane

20. Which of the following is a proper hygiene practice for maintaining healthy hair?

- A. Not combing hair to avoid damage.
- B. Using excessive amounts of hair styling products.
- C. Washing hair regularly with appropriate shampoo.
- D. Sharing combs with others.

21. Which of the following is **not** an advantage of hard water.

- A. Has Calcium salts which are good for the development of healthy teeth.
- B. Hard water is good for animals that lay eggs as it is needed to make the eggshell.
- C. Hard water when used in lead water pipes will form a coat preventing lead which is poisonous from dissolving into the drinking water.
- D. Hard water leads to mineral deposits or scale, in plumbing pipes, appliances and water heaters. This can reduce water flow and energy efficiency and increase maintenance costs.

22. All basic quantities have SI units. What is SI in full?

- A. System Internal
- B. Système International
- C. International Système
- D. System of Measurement

23. In males, where is sperm produced?

- A. Seminal vesicle C. Prostate gland
- B. Epididymis D. Testes

24. What is the role of brushing teeth regularly?

- A. To prevent cavities and gum disease.
- B. To strengthen the teeth.
- C. To whiten teeth.
- D. To improve overall health.

25. Which hormone is primarily responsible for the development of male secondary sexual characteristics?

- A. Estrogen
- B. Progesterone
- C. Testosterone
- D. Oxytocin

26. What is the function of the menstrual cycle?
 A. To produce sperm
 B. To prepare the body for pregnancy
 C. To produce eggs
 D. To regulate body temperature
27. Which part of the male reproductive system adds fluid to sperm to form semen?
 A. Prostate gland C. Bulbourethral gland
 B. Seminal vesicles D. All of the above
28. Which enzyme in saliva helps break down carbohydrates?
 A. Pepsin C. Lipase
 B. Protease D. Amylase
29. Which structure prevents food from entering the trachea when swallowing?
 A. Uvula
 B. Epiglottis
 C. Esophagus
 D. Pharynx
30. What is the main source of energy for the Earth?
 A. The Moon
 B. The Sun
 C. Fossil fuels
 D. Wind

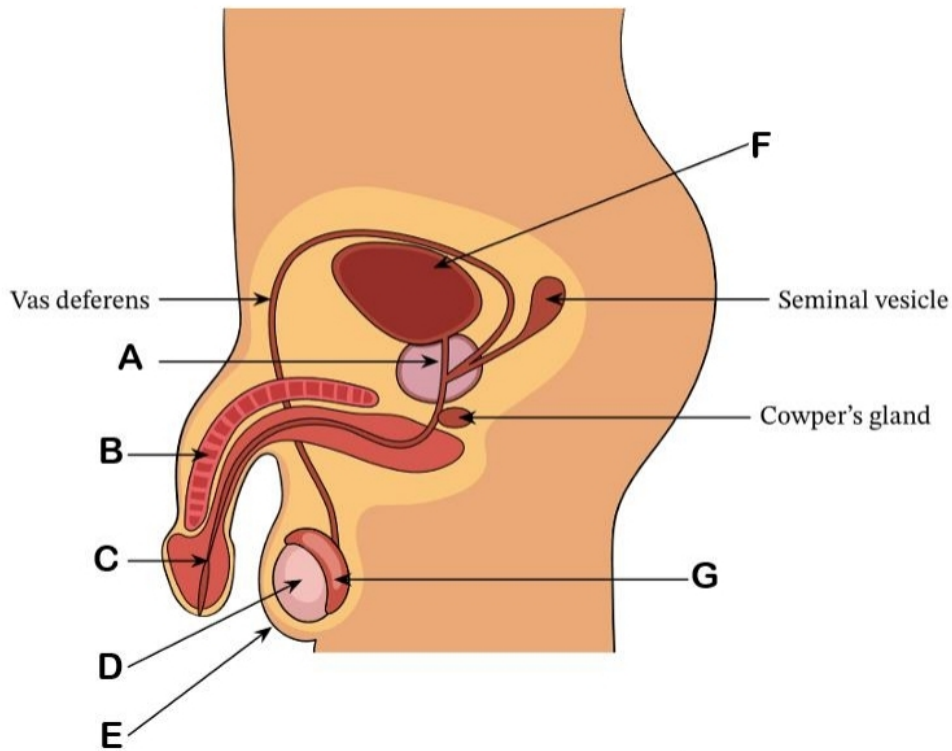
SECTION B (40 marks)

31. Amali learnt that potassium has an electron arrangement of 3.8.8.1. Using dots, draw the electron configuration of Potassium. (5 marks)

32. Fill in the table below. (6 marks)

Metallic elements	Nonmetallic elements
i)	iv)
ii)	v)
iii)	vi)

33. Grade teacher drew the diagram below of the male reproductive system. Study it and answer the questions that follow.



- a) Name the parts labelled: (3 marks)
- C – _____
- E – _____
- F – _____
- b) What is the function of the part labelled: (2 marks)
- A – _____
- C – _____
- c) What is ejaculation? (2 marks)
- _____
- _____
- _____
- d) Give one function of the penis. (2 marks)
- _____
- _____
- _____
- e) How is the sperm cell adapted to its function? (2 marks)

34. Name the following laboratory apparatus and give their functions. (10 marks)

	Apparatus	Name	Function
a)			
b)			
c)			
d)			

e)			
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35. Learners at Shikwekwe Junior School were learning about acids.

a) Give three examples of gases that they might have mentioned. (3 marks)

b) What precautions should they take when handling acids? List **two**. (2 marks)

c) State **three** uses of gases in our day-to-day life. (3 marks)

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