

KOLFRAM EDUCATIONAL SERVICES KAMPALA

PRE MOCK SET VIII EXAMINATION 2023



PRIMARY SEVEN INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index Number:

Random Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

District Name: _____

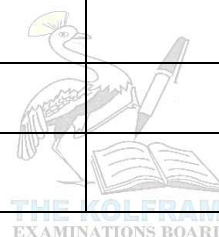
DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. This paper has two sections: **A** and **B**. Section A has **40** questions and section B has **15** questions. The paper has **10** printed pages.
2. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
6. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINER'S USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54 - 55		
TOTAL		



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Turn over

SECTION A

(Questions 1 to 40 carry one mark each)

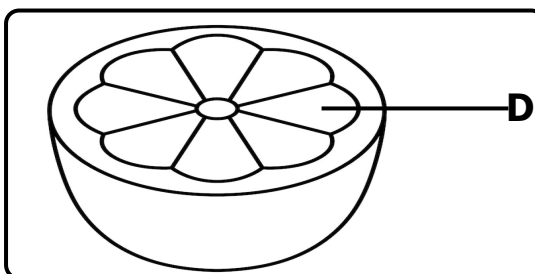
1. Give any **one** way we can care for our teeth.

2. In which way can animals be conserved in the environment?

3. What is demography?

4. How does a hutch differ from a burrow?

Study the diagram of a fruit below and use it to answer questions that follow.



5. Name the part labeled **D**.

6. To which group of fruits does the above fruit belong?

7. In which way does the use of biogas protect the environment?

8. Name the type of lens used to correct short sightedness.

9. Give any one property of matter.

10. Why is a bat regarded a living thing?

11. Give any one biological method of pest control.

12. Give any **one** advantage of using machines.

13. How is sound produced by a weaver bird?

14. How useful is the above structure on a farm?

15. State any **one** danger of poor disposal of human waste in a community.

16. Why is harvesting of crops usually carried out in the dry season?

17. In which way do tapeworms obtain food?

18. Give **one** difference between mosses and mushrooms.

19. Why do people wear light clothes on hot days?

20. State any **one** example of a bee pest.

21. Name any **one** breed of pigs.

22. Why are lungs regarded as excretory organs?

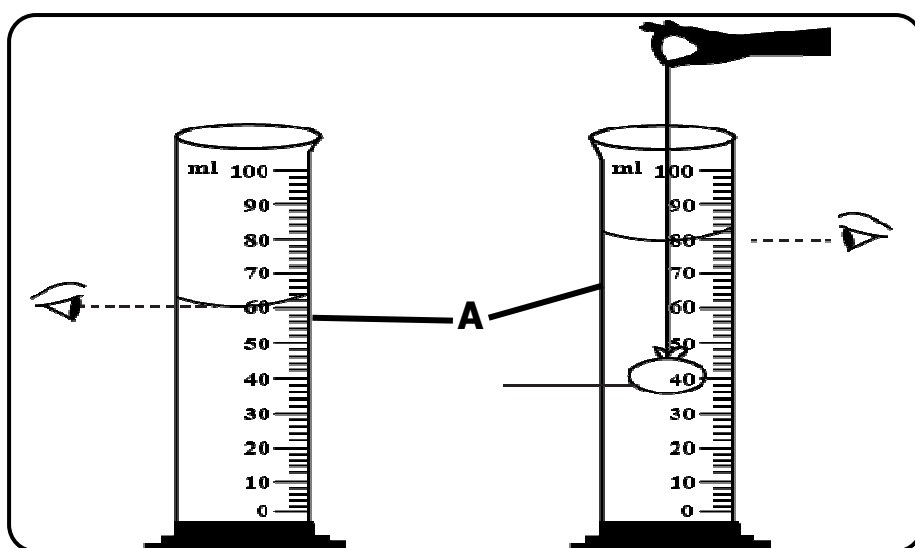
23. Give **one** importance of immunization in a community.

24. Name any **one** component of the living environment.

25. Give any **one** advantage of pruning crops.

26. Convert 90°C to $^{\circ}\text{F}$.

The diagram below shows a method of finding volume of irregular objects.



27. Name the container labelled **A**.

28. Find the density of the object if it has mass 75gm.

29. Give **one** way in which people in a community get information about a disease outbreak.

30. State the property of magnetism commonly used by captains.

31. Why is a frog able to live comfortably on land and in water?

32. Give **one** importance of poultry keeping to a crop farmer.

33. What class of food is digested in the duodenum?

34. What causes bilharzia?

35. Give the importance of the sun in the formation of rainfall.

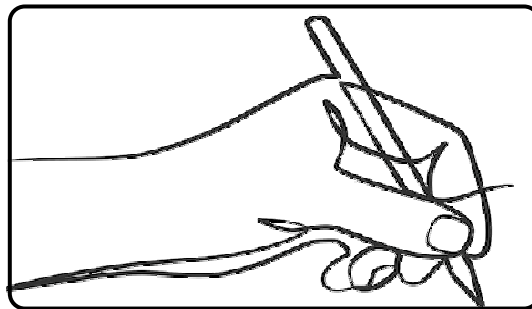
36. How does the skin regulate body temperature on hot days?

37. State **one** use of plants to birds.

38. Give **one** danger of castrating farm animals.

39. Give **one** importance of rotational grazing in livestock management.

40. Below is a diagram of a human hand. Use it to answer the questions that follow.



Use letter K to show the position of the pivot.

SECTION B

41 (a) Name **two** diseases that affect both goats and sheep.

(i) _____

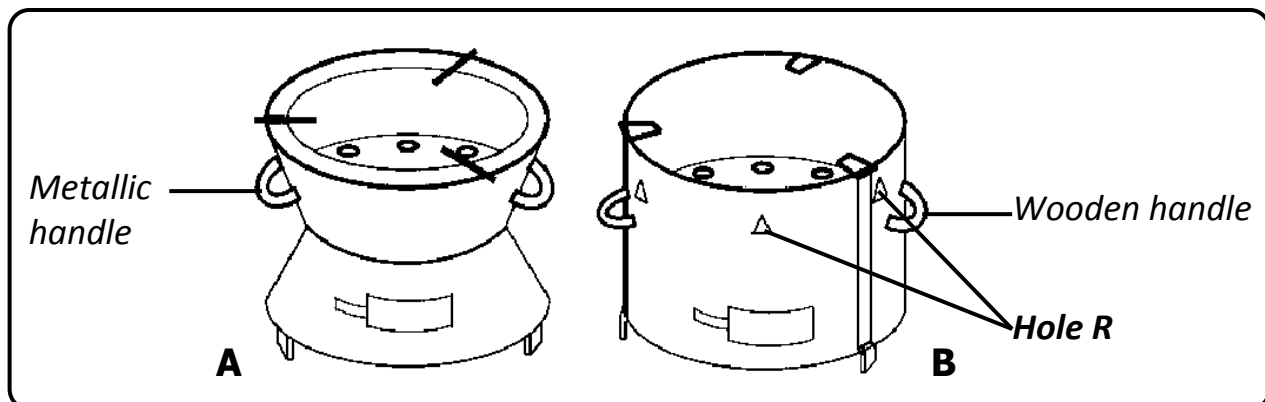
(ii) _____

(b) Give two advantages of rearing goats instead of cows.

(i) _____

(ii) _____

41. The diagram below shows two cooking stoves. Study it and use it to answer questions that follow.



(a) Why is the handle of stove **B** made of wood instead of metal like stove **A**?

(b) State the main importance of the holes marked with letter **R** on the stove **B** above.

(c) What problem will the person cooking with stove **A** face when it is in use?

(d) How are the stoves dangerous to the environment?

43(a) Give **two** ways in which animals depend on plants.

(i) _____

(ii) _____

(b) Give **two** ways in which plants depend on plants.

(i) _____

(ii) _____

44 (a) Give **two** differences between bacteria and fungi.

(i) _____

(ii) _____

(b) In which any **two** ways can bacteria and fungal diseases be controlled?

(i) _____

(ii) _____

45(a) What is heat?

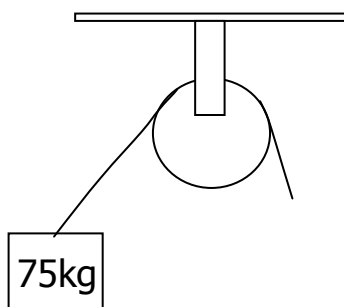
(b) Give any two importance of convection in our daily life.

(i) _____

(ii) _____

(c) In which state of matter does heat travel slowest?

46. The diagram below shows a pulley system. Use it to answer questions that follow.



(a) Name the type of pulley system shown above.

(b) Using an arrow show the direction of effort on the above system.

(c) Give any **two** uses of pulleys to man.

(i) _____

(ii) _____

47. Complete the table below correctly.

thermal electricity	_____
_____	uranium
geothermal electricity	_____
_____	sun

48 a) What is respiration?

(b) Where does respiration take place in the body?

(c) What happens to the following organs during inspiration?

(i) Intercoastal muscles

(ii) Volume of the chest

49 (a) How do the following germs affect the circulatory system?

(i) plasmodia

(ii) HIV

(b) Give two ways in which you can keep the circulatory system in a healthy state.

(i) _____

(ii) _____

50(a) What type of skeleton do the following organisms possess?

(i) Earthworm

(ii) Dog

(b) Give the importance of joints in the body.

(c) Distinguish a ligament from a tendon.

51(a) Give **two** uses of food in our body.

(i) _____

(ii) _____

(b) Give **two** reasons why we eat food.

(i) _____

(ii) _____

52 (a) Give **two** effects of smoking to an expectant mother.

(i) _____

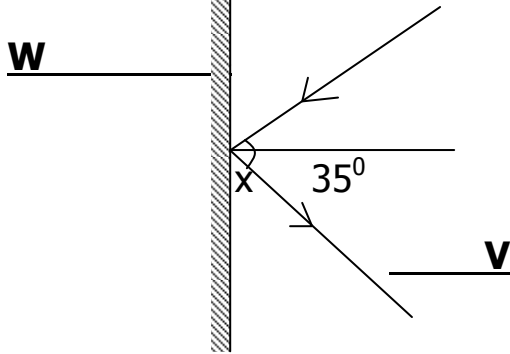
(ii) _____

(b) Apart from tobacco, state any **two** other drugs which are commonly abused.

(i) _____

(ii) _____

53. The diagram below shows reflection. Use it to answer the questions that follow.



(a) Name the parts labelled;

(i) V _____

(ii) W _____

(b) Calculate the value of angle marked x.

(2 marks)

54(a) Give **two** reasons why the usage of toilets is limited in most parts of Uganda.

(i) _____

(ii) _____

(b) Give **two** differences between a VIP latrine and a conventional pit latrine.

(i) _____

(ii) _____

55(a) State the **two** sets of teeth.

(i) _____

(ii) _____

(b) Give **two** ways of maintaining personal hygiene besides brushing teeth.

(i) _____

(ii) _____

Good luck

KOLFRAM EDUCATIONAL SERVICES KAMPALA

PRE MOCK SCIENCE SET VIII ASSESSMENT MARKING GUIDE 2023

SECTION A

1. *By brushing teeth, rinsing mouth/By flossing teeth, Going for dental checkup*
2. *Keeping animals in game parks, reserves, avoiding poaching*
3. *Study of population/study of the changing number of births, deaths and diseases affecting people in a community.*
4. *A hutch is a habitat for a domestic rabbit while a burrow is a habitat for a wild rabbit.*
5. *Endocarp*
6. *Drupe*
7. *It reduces the rate of deforestation/it reduces the rate of pollution.*
8. *Concave lens/diverging lens*
9. *Matter has weight/occupies space*
10. *A bat feeds, grows, respire, excrete (reject has life)*
11. *Using dogs to control monkeys in cassava garden/using cats to control rats in a store.*
12. *They simplify work/increase rate of doing work*
13. *By vibration of air in the rings of cartilage*
14. *It is used to test for mastitis in cattle*
15. *It leads to spread of diarrhoeal diseases*
16. *There is enough sunshine to dry harvested crops*
17. *They absorb food using their body*
18. *Mosses make their own food while mushrooms absorb food from decayed matter*
19. *To reflect heat and keep their bodies cool*
20. *..*
21. *Poland, china – land race, Saddle back, Large white*
22. *Lungs excrete carbon dioxide/water vapour from the body*
23. *It reduces infant mortality rate/It prevents children from the childhood killer diseases*
24. *Plants/Animals*
25. *Reduces hiding places for pests/Reduces weight of the crop/Enables plant to get enough sunlight/Makes harvesting, spraying easy/Reduces competition for nutrients*
26.
$$^{\circ}F = \left(\frac{9}{5} \times ^{\circ}C \right) + 32$$

$$\left(\frac{9}{5} \times 90 \right) + 32$$

$$9 \times 18 + 32$$

$$162 + 32$$

$$194^{\circ}F$$
27. *Measuring cylinder*
28. $D = ? \quad M = 75\text{gm}$
 $V = 2^{\text{nd}} \text{ level} - 1^{\text{st}} \text{ level}$
 $= 35\text{cc} - 20\text{cc}$
 $= 15\text{cc}$

$$D = \frac{M}{V5}$$

= 75gm
15cc

= 5g/cc

29. *Through newspapers, radios, television, drama/plays*
30. *A freely suspended magnet rests in the North-south direction*
31. *A frog breathes through lungs on land and moist skin in water*
32. *Poultry droppings are a source of manure*
33. *Fats and oils*
34. *Bilharzia flukes/Sehistosome*
35. *The sun heats water in the water body causing evaporation*
36. *By producing sweat/vasodilate leads to heat loss by radiation*
37. *For food/for shelter*
38. *Animals are denied right of mating/Animals may bleed and die/Animals wounds may become septic and lead to infection*
39. *Gives pasture time to grow/controls overgrazing/controls spread of diseases by ticks/gives farmer time to do other activities.*
- 40.

SECTION B

41. –
 - (a) *Anthrax/foot and mouth disease/foot rot/ mastitis/pneumonia*
 - (b) *Goats have low water demand/Goats feed on almost any vegetation/Goats are more tolerant to harsh conditions*
42. –
 - (a) *X – Gill bar C – Gill rakers*
 - (b) *B – it is where exchange of gases takes place.*
 - (c) *They are used by a fish for breathing.*
43. –
 - (a) *For food – for herbal medicine/For shelter/ For oxygen*
 - (b) *For support/For humus from leaves*
44. –
 - (a) *Bacteria reproduce by means of cell division while fungi by spores/Bacteria cannot be seen by naked eyes while fungi are seen by naked eyes/Bacteria cannot be eaten while some fungi are eaten as food.*
 - (b) *Ironing clothes/Boiling water for drinking/Reheating leftover food/Drying clothes under the sun*
45. –
 - (a) *Heat is a form of energy that causes rise in temperature*
 - (b) *Convectional currents help in boiling of water/Convection keeps a charcoal stove burning/It drives out bad smell from the vip latrine/It keeps a lit cigarette burning/it drives out smoke from the kitchen chimney/It drives bad smell from environment*
 - (c) *Solids*
46. –
 - (a) *Single fixed pulley*

- (b) Shown
- (c) Drawing water from well raising flags/drawing curtains/painting high raised building/loading & offloading metals, scrap
47. –
- (a) Coal
- (b) Atomic/Nuclear electricity
- (c) Hotsprings
- (d) Solar electricity
48. –
- (a) Is the chemical breakdown of food to release energy.
- (b) Body cells
- (c) They contract/Volume of chest increases
49. –
- (a) Plasmodia destroys Red blood cells leading to anaemia
- ii. HIV destroys white blood cells leaving body defenseless against disease germs.
- (b) Doing regular body exercises/Eating foods with low animal fat/Eating foods rich in iron.
50. –
- (a) i. Hydrostatic skeleton
- ii. Endoskeleton
- (b) joints help in movement
- (c) a ligament joints a bone to a bone while a tendon joins a bone to a muscle.
51. –
- (a) Food provides energy to the body/Repairs worn out body cells/Food keeps the body healthy/Food distributes heat to all body parts
- (b) To show hospitality, due to hunger, it's a habit/To keep health (consider 5H)
52. –
- (a) Smoking causes still birth/smoking causes premature birth/causes low birth weight
- (b) Alcohol, marijuana, miira
53. –
- (a) V - Reflected ray
- W – Smooth plane surface
- (b) \angle of incidence = Angle of reflection
- $$X + 35 = 90$$
- $$X + 35 = 90 - 35$$
- $$X = 55^{\circ}$$
54. –
- (a) Toilets are expensive to maintain/They easily get blocked when hard substances are uses/Need constant water supply
- (b) VIP latrine has a screen while a conventional doesn't have a screen/VIP latrine has a vent while conventional doesn't/VIP latrine does not smell badly while a conventional smells badly.
55. –
- (a) Milk teeth, Permanent teeth
- (b) Iron clothes/washing clothes/bathing/ washing hands before and after/washing hands after visiting a toilet