KOLFRAM EDUCATIONAL SERVICES KAMPALA



Index Number:

PRE MOCK SET VIII EXAMINATION 2023

PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Personal Number

Random Number

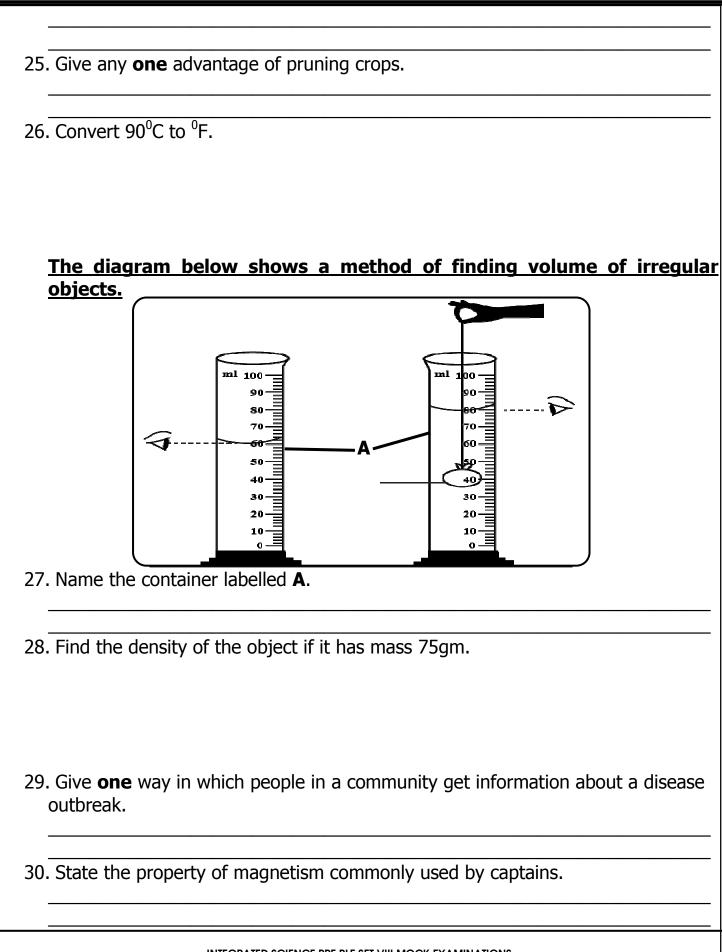
Candidate's Name:				
Candidate's Signature:				
School Name:				
District Name:				
DO NOT OPEN THIS BOOKLET UNLESS YOU A	ARE TOLE	TO DO) SO	
Read and follow these instructions carefully:				
1. This paper has two sections: A and B . Section A has 40	FOR EXA	FOR EXAMINER'S USE ONLY		
questions and section B has 15 questions. The paper has 10 printed pages.	QN. NUMBER	MARKS	EXAMINER'S INITIAL	
2. Answer all questions. All answers to both sections A and	1 -10			
B must be shown in the spaces provided.	11 - 20			
3. All answers must be written using a blue or black ball point pen or ink. Any answer written in pencils other than	21 - 30			
on graphs and diagrams will not be marked.	31 - 40			
4. No calculators are allowed in the examination room.	41 - 43			
5. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks .	44 - 46			
6. Do not fill anything in the table indicated: " FOR	47 - 49			
EXAMINERS' USE ONLY " and boxes inside the question	50 - 53	Co.	. 1	
paper.	54- 55		Part of the second	
	TOTAL			

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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.



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.
<u>unswer questions trac ronowr</u>
Metallic handle A Wooden handle B Hole R
(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)
(ii)

(b) (i)	•	can bacteria and fungal diseases be controlled?		
(ii)				
	What is heat?			
(b)	Give any two important	ce of convection in our daily life.		
(i)	dive any two important	•		
(c)	In which state of matte	r does heat travel slowest?		
(-)	——————————————————————————————————————			
46.	6. The diagram below shows a pulley system. Use it to answer questions			
	that follow.			
	75kg			
(a)	Name the type of pulley	system shown above.		
/ b\	Using an arrow chow th	a divertion of offert on the above quetom		
(b)	_	e direction of effort on the above system.		
(c)	Give any two uses of po	ulleys to man.		
(i) <u>.</u> (ii)	<u> </u>			
47.	Complete the table b	elow correctly		
∀ /∎	Complete the table b	elow correctly:		
	thermal electricity			
	chermal electricity			
		uranium		
	geothermal electricity			
	geothermal electricity			
		sun		
		Suit		

48 a)	What is respiration?
(b)	Where does respiration take place in the body?
(c) (i)	What happens to the following organs during inspiration? Intercoastal muscles
(ii)	Volume of the chest
49 (a	How do the following germs affect the circulatory system? (i) plasmodia
	(ii) HIV
(b) (i)	Give two ways in which you can keep the circulatory system in a healthy state.
	What type of skeleton do the following organisms possess? Earthworm
(ii)	Dog
(b)	Give the importance of joints in the body.
(c)	Distinguish a ligament from a tendon.
51(a) (i)	Give two uses of food in our body.
(i)	Give two reasons why we eat food.
(ii)	<u> </u>

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)
53. The diagram below shows reflection. Use it to answer the questions that follow
M 35° V
(a) Name the parts labelled; (i) V
(ii) W(b) Calculate the value of angle marked x. (2 marks)
(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)
(i)
(ii)
55(a) State the two sets of teeth.
(i)
(ii)
(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. Drupes
- 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, respires, excretes (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.
$${}^{0}F = \frac{\left(\frac{9}{5} \times {}^{0}C\right) + 32}{\left(\frac{9}{5} \times 90\right) + 32}$$

$$9 \times 18 + 32$$

$$162 + 32$$

$$194 {}^{0}F$$

27. Measuring cylinder

28.
$$D = ?$$
 $M = 75gm$
 $V = 2^{nd} \ level - 1^{st} \ level$
 $= 35cc - 20cc$
 $= 15cc$

$$D = \underline{M}$$

$$V5$$

- = <u>75</u>gm 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) < 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.
- (a) Milk teeth, Permanent teeth
- (b) Iron clothes/washing clothes/bathing/ washing hands before and after/washing hands after visiting a toilet