

KOLFRAM EDUCATIONAL SERVICES KAMPALA



PRE NATIONAL MOCK EXAMINATION 2024

SET SEVEN (BLUE PRINT)

INTEGRATED SCIENCE



Time allowed: 2 hours 15 minutes

Index Number:

Random Number						Personal Number		

Candidate's Name:

Candidate's Signature:

School ID:

District ID:

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 **14** 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 or **electronic** pens are allowed in the examination room.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated:
"FOR EXAMINERS' USE ONLY" and boxes

FOR EXAMINER'S USE ONLY

QN. NO.	MARKS	EX'ER'S INITIAL
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44- 46		
47- 49		
50- 52		
53- 55		
TOTAL		

Turn Over

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SECTION A: 40 MARKS

(Question 1 to 40 carries **one** mark each)

1. Give any **one** type of teeth not found in milk teeth.

.....

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

.....

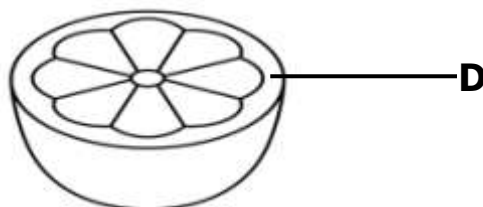
3. What is demography?

.....

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 of the fruit labeled with letter **D**.

.....

6. State **one** reason why transplanting is not done during the midday.

.....

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 not regarded as a bird yet it flies?

.....

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.

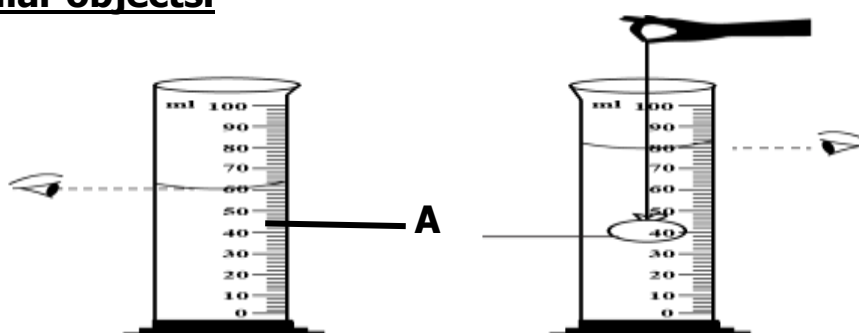
22. Why are lungs regarded as excretory organs?

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.

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



26. Name the container labeled **A**.

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

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

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

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

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

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

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)

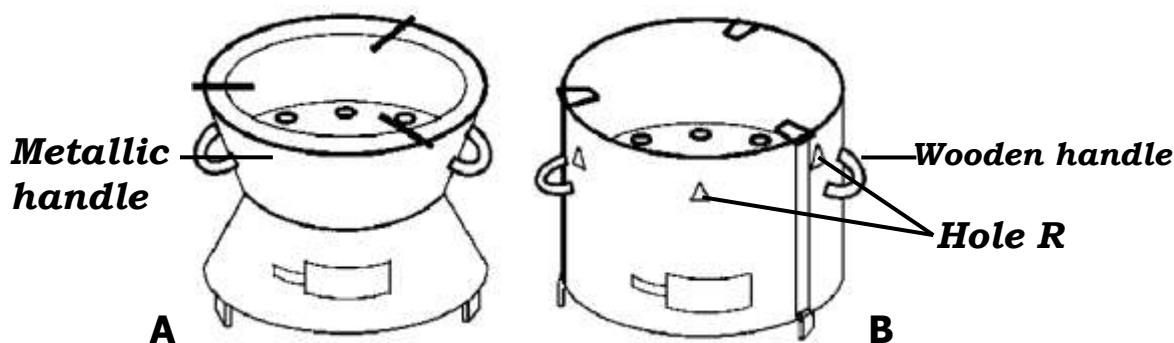
(ii)

(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 bacterial and fungal diseases be controlled?

(i)

(ii)

45. (a) What is heat?

.....

.....

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

(i)

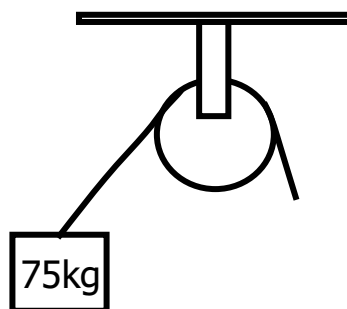
(ii)

(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. 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

.....
.....

48. Complete the table below correctly.

Type of electricity	Source of energy
thermal electricity
.....	uranium
geothermal electricity
.....	sun

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.....

(d) 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)

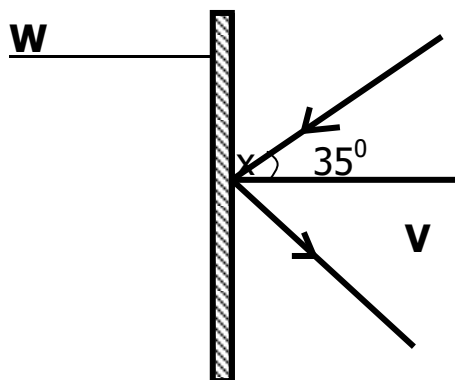
(ii)

(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 oral hygiene besides brushing teeth.

(i)

(ii)