



THE E-LEARN EXAMINATIONS BOARD

PRE NATIONAL MOCKS 2025

SET ONE / FIVE

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. Do not write your **district name** anywhere on the paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **12 printed pages** altogether.
3. Answer **all** questions. **All** answers for both Sections **A** and **B** must be written in the spaces provided.
4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than drawings will **not** be marked.
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 inside the question paper.

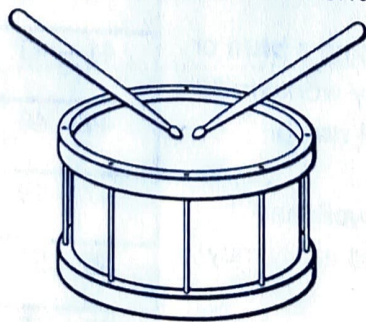
FOR EXAMINERS' USE ONLY		
QN. NO.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

Questions **1** to **40** carry **one** mark each.

1. Mention any **one** plant which undergoes self-pollination.
.....
2. State the principle on which the protective device in the simple electric circuit works.
.....
3. Mention the group of mammals which is termed as primitive.
.....
4. State **one** way how a health club in your school can prevent the spread of ring worm among children.
.....
5. Write the type of poultry whose young ones is poult.
.....
6. State **one** example of a common health service.
.....
7. Give **one** functional difference between foliage leaves and scaly leaves of an onion.
.....

The diagram below shows a musical instrument. Use it to answer question **8** and **9**.



8. To which group of musical instruments does the above instrument belong.
.....

Suggest **one** possible way of varying the pitch of sound produced by the above of instrument.

.....

10. How does the information collected during a health survey help to control the spread of water associated diseases?
-
11. Besides endo skeleton, give **one** other type of skeleton possessed by a terrapin.
-
12. State the effect of malnutrition to the economy of the family.
-
13. State the group of bones in human body that play a protective role to delicate organs.
-
14. Write any **one** plant with a leaf like that of a bean plant
-
15. Write the effect of low humidity on the rate of transpiration.
-
16. Mention **one** way government can solve the problem of food insecurity in the same parts of the country.
-
17. What germ causes fowl pox in domestic fowls.
-
18. State **one** way how the life skill of self-awareness can help a youth to avoid sexual deviation practices.
-
19. Why do you think liver flukes in cattle cannot be controlled by dipping animals in acaricides?
-
20. State a reason why constrictors take long to eat after swallowing a prey.
-

21. Mention **one** way of addressing health concerns in the community.
-
22. State the main reason why the teeth of poisonous snakes are curved backwards.
-
23. How are spinneret important to spiders.
-
24. State the group of annual crops where the grain and fruit are fused together as **one**.
-
25. Write any **one** way how people can make use of the products made from beeswax.
-

Use the diagram below to answer questions **26** and **27**.



26. Name the body system where the above organ belongs.
-
27. State how valves in the above diagram keep blood flowing in one direction.
-
28. Mention the activity in apiculture that requires the use of a swarm catcher net.
-
29. Give **one** disadvantage of harvesting honey during night hours.
-

Write **one** similarity between crustaceans and fish as living things.

.....

31. Name the process of producing high concentrated alcohol.

.....

32. State what happens to the fore arm when the biceps contract and triceps relax.

.....

33. How timber seasoning important to Ssebuguzi who deals in selling timbers on a large scale.

.....

34. State **one** way gravitation force affects the weight of an object.

.....

35. Name the group of cells involved in sexual reproduction.

.....

36. Doreen was prescribed tablets labeled **2 x 3**. If she first swallowed at 7:00pm, at what time did she swallow the second time.

.....

37. State the method of harvesting wood where the terminal bud is cut off.

.....

38. How is a eureka can able to pour displaced water out into the measuring cylinder.

.....

39. State how tree fencing is important in agro forestry.

.....

40. Write **one** way in which wind affects the nature of trees growing in the environment.

SECTION B: 60 MARKS

Questions **41** to **55** carry **four** marks each.

41. a) Define **transplanting** in relationship to crop growing.

.....

.....

- b) Mention **one** reason why mulching is done immediately after transplanting.

.....

- c) State any **two** harsh weather conditions seedling are protected against when they are in a nursery bed.

(i).....

(ii)

42. Study the list of organisms below and answer the questions about them

cabbage, Lion, bacteria, rat

- a) Form a food chain using the organisms above.

.....

- b) What would happen to the number of rats if cabbage reduces in number in the above.

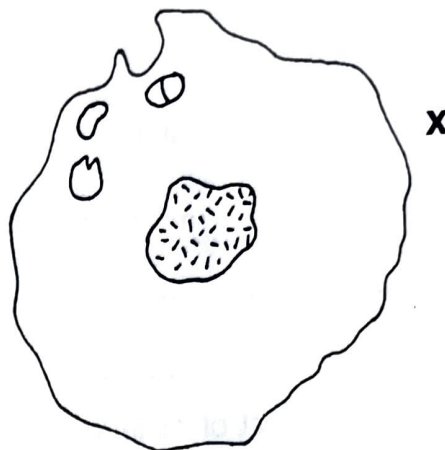
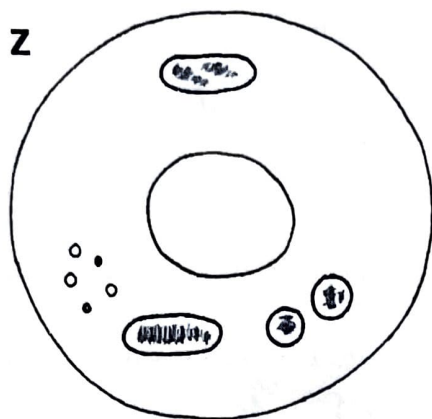
.....

- c) Write any **one** organism that would be substituted with the following in the above relationship:

(i) Rat

(ii) Bacteria.....

Use the components of blood below and answer the following questions.



a) Name the blood cell marked **Z**

.....

b) Name the part of the body where blood cell X is produced.

.....

c) How does blood **X** helps to boost the immune system of a human body.

.....

d) State **one** substance transported by z.

.....

44. a) Mention **two** causes of eye defects.

(i).....

(ii)

b) Which part of the human eye is the first to refract light rays.

.....

c) Give a reason why images formed in the human eye diminished.

.....

Turn Over

45. In **four** sentences, explain briefly how the piece of cassava put in the mouth ends up in the blood stream.

.....

.....

.....

.....

.....

46. a) Write the effect of malaria to the circulatory system.

.....

b) Give any **two** ways how the government of Uganda has measurably controlled malaria among her people.

(i).....

(ii)

c) State how untreated malaria lead to death in infants.

.....

47. a) Give the difference between **overdose** and **drug misuse**.

.....

.....

b) Describe how health workers can control the dangers caused by drug misuse.

.....

c) State **one** effect of drug abuse to the following groups of people.

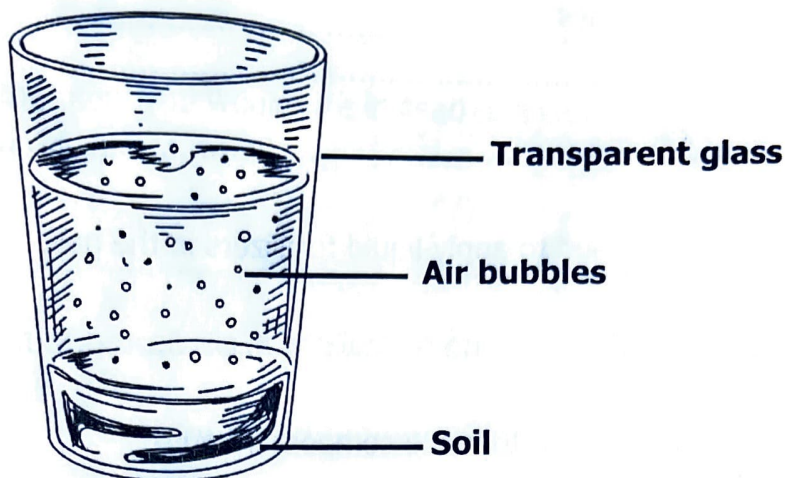
(i) School going children

.....

(ii) Family

.....

Use the property of soil below to answer questions that follow.



a) State how the component of soil being tested in the above experiment is important to the organisms in it.

.....

b) State what enables a viewer to see the air bubbles.

.....

c) Write is the role of water in the above experiment.

.....

d) Apart from the component required in (a), write **one** other component of soil that helps in seed germination.

.....

49. a) How is the following equipment important to a person with a fracture:

(i) Arm sling

(ii) Crutches

b) State **one** way first aid reduces pain.

.....

c) Give **one** disorder of bones other than fractures.

.....

50. a) Mention **two** reasons why local crop farmers would prefer using natural fertilizers to artificial ones

(i).....

(ii)

b) State the method used to apply liquid fertilizers in the garden.

.....

c) Name **one** material used to make compost manure.

.....

51. a) State how a concave lens corrects short-sightedness

.....

b) Besides being virtual, write any other **two** characteristic of images formed by plane mirrors.

(i).....

(ii)

c) Write the principle of light on which plane mirrors work.

.....

52. When a plastic comb was continuously rubbed on a woolen cloth, the plastic comb attracted some small pieces of paper and got stuck on the comb for a short time.

a) What charge does each of the following items acquire?

(i) Piece of paper

(ii) Plastic comb

b) Give a reason why the piece of paper fell after some time.

c) State **one** other item you would use instead of a woolen cloth and still get the same results.

53. a) Give the effect of brucellosis in production on a cattle farm.

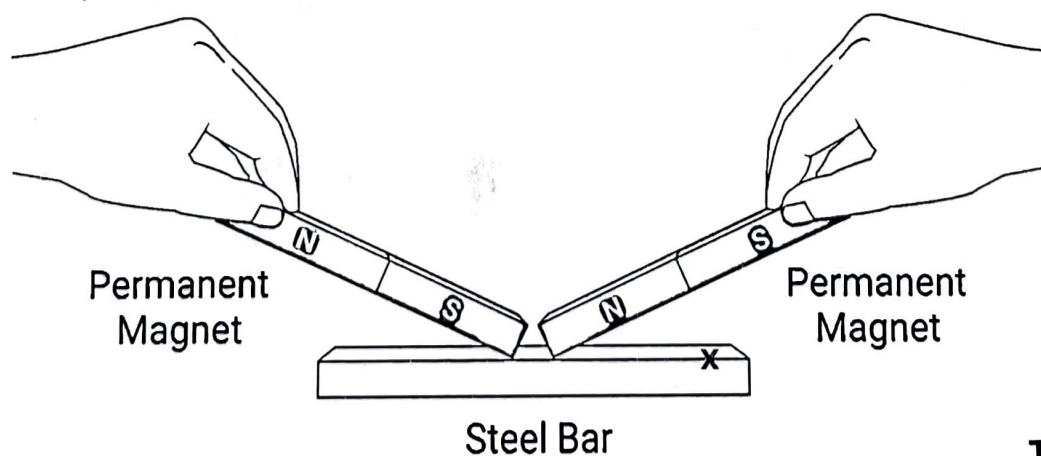
b) Write the difference between **inbreeding** and **outbreeding** as used in cattle keeping.

c) State **two** ways inbreeding can be controlled on a farm.

(i).....

(ii)

54. The diagram below shows a method of making a temporary magnet. Use it to answer questions that follow.



Turn Over

a) Identify the method of making a temporary magnet shown above.

.....

b) Name the pole labelled **X** after magnetization.

.....

c) State **one** way of increasing the strength of magnets formed by the above method.

.....

d) Give a reason why iron is commonly used to make temporary magnets?

.....

55. a) State the importance of intercostal muscles during breathing.

.....

.....

b) Write the reason why lungs expand during breathing in.

.....

.....

c) Give any **two** disorders of the respiratory system.

(i).....

(ii)

END