

# NEXUS EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATION 2023

SET II

## INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Index Number:

Random No.						Personal No.		

Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District Name:.....

**Read the following instructions carefully:**

1. Do not forget to write your **school** or **district name** on this paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and Section **B** has **15** questions.
3. Answer **all** questions. **All** answers for both sections **A** and **B** must be written in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
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 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

1. What characteristics of living things helps them to look for food?  
.....
2. What do we call the taking of drugs in quantities greater than the prescribed by a health worker?  
.....
3. Give one cause of sickness in the community.  
.....
4. Why do dogs pant a lot in a hot weather?  
.....
5. How are root hair cells important to a plant?  
.....
6. Why should people treat water before use?  
.....
7. Name one factor that should be maintained constant in the human body.  
.....
8. State one reason why farmers who rear exotic chickens spend much money on the treatment of their birds.  
.....
9. Give one reason why some road users always wear the item shown in the diagram below.



10. Mention one example of a fruit vegetable.  
.....



11.Compose one danger introduced to the environment by poor disposal of polythene.

.....

12.How are hyphae important to a mushroom?

.....

13.Identify the disease vector for cassava mosaic disease.

.....

14.Give one way in which the human heart is suited to its function.

.....

15.Name one use of having a carpet on the floor of a living room.

.....

16.Why is the pulp cavity referred to as the most sensitive part of the tooth?

.....

17.Suggest one disadvantage of bottle feeding to babies.

.....

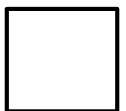
18.Which immunisable disease causes a swollen neck?

.....

19.Give one advantage of cooking food first before eating.

.....

20.State one bacterial poultry disease.



.....

21.How do trees planted in agroforestry benefit from having deep penetrating roots?

.....

22.In which one way can people make use of ash?

.....

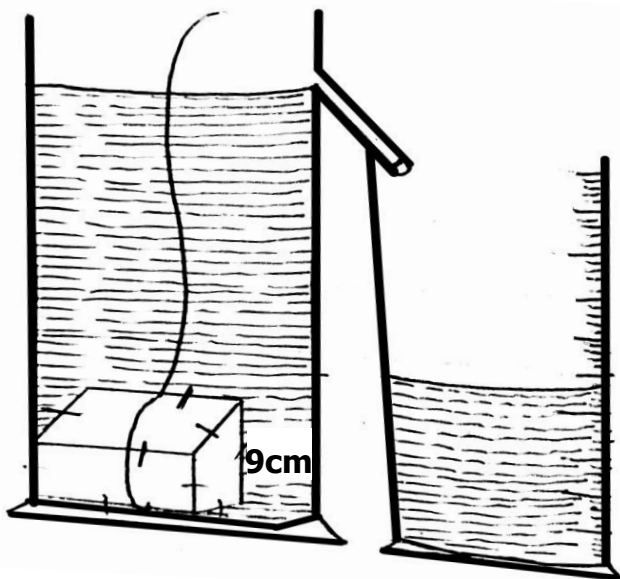
23.Give one importance of having young farmers' clubs in a school.

.....

24.What cattle product spreads tuberculosis to people?

25.Akol can read his notes when the book is put at a distance not less than one metre from his eyes. What advice can you give him?

26.Calculate the volume of water collected in the measuring cylinder according to the diagram below.

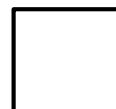


27.In which one way can unborn babies be protected from neonatal tetanus?

28.State one way in which soil is important to growing plants.

29.Write down one principle of PHC that deals with community activities.

30.Give the importance of a jelly covering the eggs of a frog.



31.Mention one major reason why a person who is running breathes so fast.

32.To which group of vertebrates do caecilians belong?

.....

33.Why are some weather instruments not kept in a Stevenson screen at a weather station?

.....

34.Give one enzyme that works best in alkaline condition.

.....

35.State one difference between a drone bee and worker bees in terms of their physical structures.

.....

36.Why is it bad to remove food remains in the teeth using sharp objects?

.....

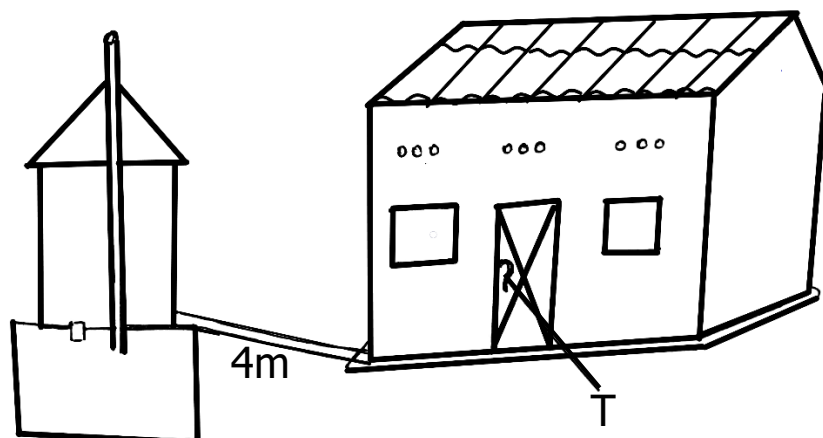
37.Why is sugarcane referred to as a perennial crop?

.....

38.Mention any one part of the appendicular skeleton in the human body.

.....

The diagram below shows a living house and a latrine. Use it to answer questions 39 and 40.



39.To which group of simple machine does the knob at **T** belong?

.....

40.State one problem that results from having a latrine at the above distance.

.....

**SECTION B: 60 MARKS**

41.a) Give any two causes of alcoholism in people.

i. ....

ii. ....

b) Name one body system affected by alcoholism.

.....

c) Why doesn't the government stop the making of alcohol yet it is dangerous to people's health?

.....

42. a) State any two reasons farmers give for carrying out seed selection.

i. ....

ii. ....

b) Besides seed selection, give any two other farming activities carried out before planting.

i. ....

ii. ....

43. The diagram below shows a man preparing chapatti. Use it to answer questions that follow.



a) Name the method of preparing food shown in the diagram above.

.....

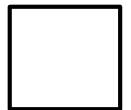
b) Which force helps the man to prepare chapatti in the way shown above?

.....

c) What food value is got from feeding on chapatti?

.....

d) How can a person preparing chapatti protect them from food contamination?



.....

44. a) State the meaning of the term convulsion.

.....

b) Mention any two causes of convulsion.

i. ....

ii. ....

c) Why is it important to put a hard object between the jaws of a person with convulsion?

.....

45. a) Name the biological organisms that provide immunity in the human body.

.....

b) Write down any two ways of increasing the above organisms in the human body.

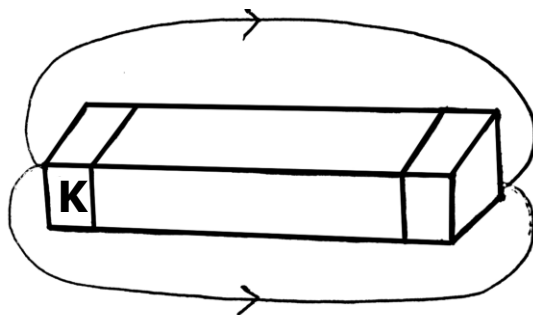
i. ....

ii. ....

c) In which one way do vaccines boost the body's immunity?

.....

46. The diagram below shows a bar magnet. Use it to answer questions about it.



a) Identify pole marked **K**.

.....

b) What would happen if the south pole of another bar magnet was brought near pole **K**?

.....

.....

c) Give a reason for the observation you have stated in (b) above.

.....

.....

d) State the property of magnets illustrated by the arrows drawn around the drawn bar magnet.



.....

47. a) What blood cell is having haemoglobin and a biconcave shape?

.....

b) State the importance of each feature to the identified blood cell:

i) haemoglobin

.....

ii) biconcave shape

.....

c) Name one blood disease in humans.

.....



48. a) Mention any two social and health problems affecting people living in slum areas.

i. ....

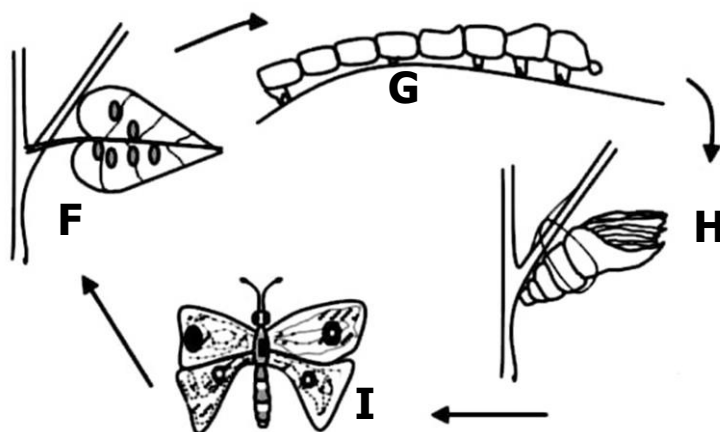
ii. ....

b) Give any two pieces of advice you can give to people in slum areas to overcome the social and health problems they face.

i. ....

ii. ....

49. The diagram below is of a life cycle of a certain insect. Use it to answer questions that follow.



a) Name the type of life cycle shown above.

.....

b) Which stage is harmful to crops?

.....

c) Why are eggs laid under the leaves?

.....

d) How is stage marked **I** useful to crop farmers?

.....



50. a) Mention one raw material used to make each of the following:

- i) Bricks.....
- ii) Clothes.....

b) Apart from soil degradation, give any other two types of environmental degradation.

- i) .....
- ii).....

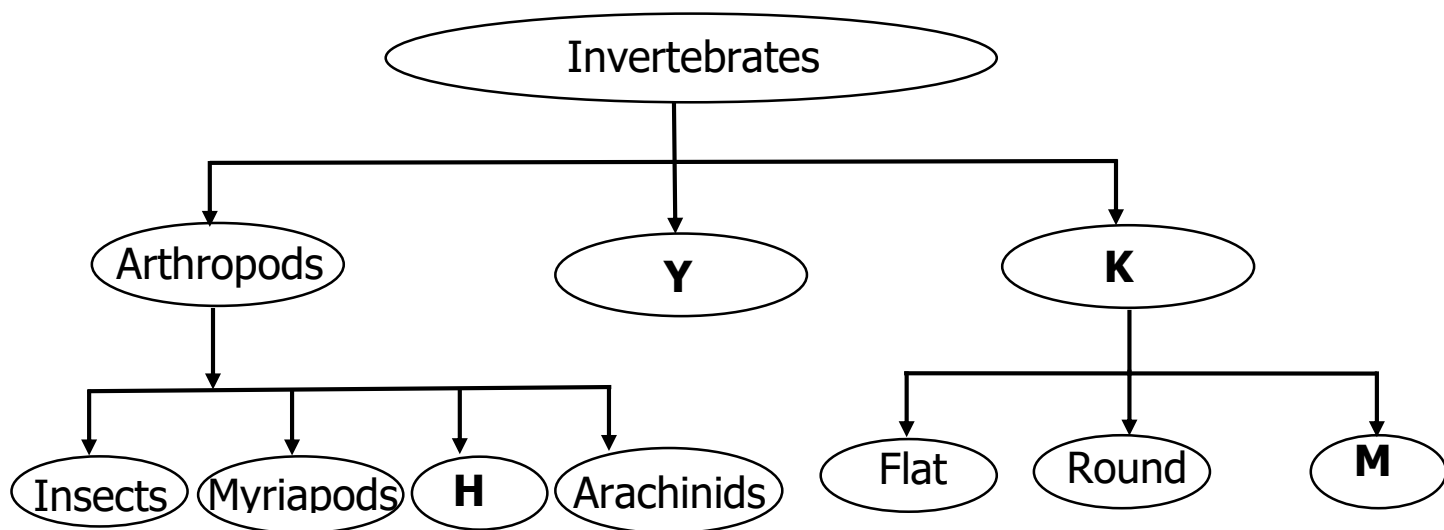
51. a) Give any two types of changes which are irreversible.

- i.....
- ii.....

b) In which one way are chemical changes important to the:

- i) human body?  
.....
- ii) plants?  
.....

52. a) The diagram below shows a simple classification chart. Complete it correctly and answer questions that follow.



**K**.....

**H**.....

**M**.....

b) Name one group of invertebrates that can be put at Y.

.....

53. Below are steps of milking a cow but in a wrong order. Rearrange them correctly.

- i) Start milking a cow.
- ii) Wash the udders of the cow with warm water.
- iii) Tie the hind legs.
- iv) Wash hands properly with clean water and soap.

- i) .....
- ii) .....
- iii).....
- iv).....

54. Study the materials given below and use them to answer questions that follow.

frosted glass

clear water

wall

sun

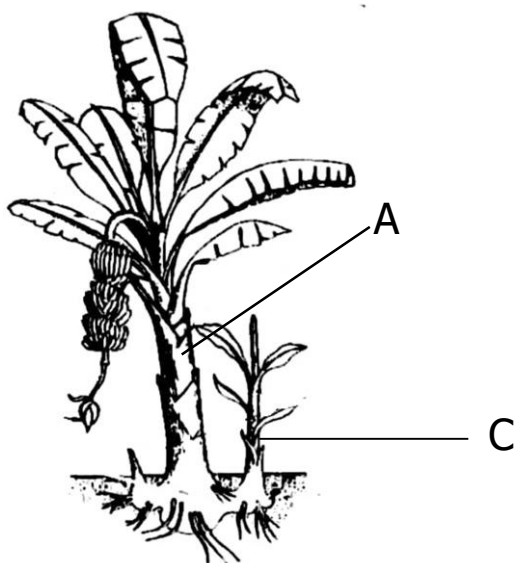
a) Identify one example from the above list which is:

- i) An opaque object  
.....
- ii) Transparent  
.....
- iii) A translucent object  
.....

b) Why is the moon referred to as a natural satellite?

.....

55. The diagram below shows a banana plant. Use it to answer questions that follow.



a) Name part marked **A**.

.....

b) How is the part marked **C** important to a banana plant?

.....

c) Name the type of leaf venation in banana plants.

.....

d) Why are banana plants propped at fruiting stage?

.....

.....

**END**

