

STEM EXAMINATIONS BOARD
PRE-PRIMARY LEAVING EXAMINATION SET IV, 2022
INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.					Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No:

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and Section **B** has **15** questions. The paper has **8 printed pages** altogether.
3. Answer **all** questions. **All** answers to 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 graphs and diagrams 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.

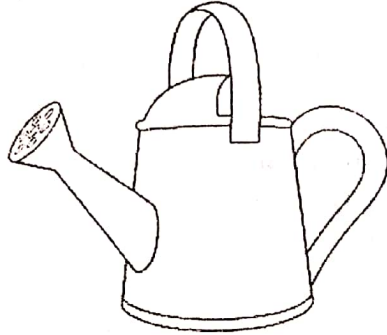
FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR'S NO.
1- 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

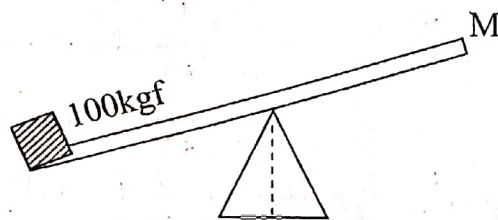
1. Name the structure which enables mosquitoes to suck blood from human bodies.

The diagram below shows a garden tool . Use it to answer question 2.



2. Give the use of the above tool to farmers.
3. Why is water an important component in our environment?
4. Which animals live in a kraal?
5. State the standard unit for measuring volume.
6. Apart from cooking, how else is firewood used in our homes.
7. Why do human beings suffer from Goiter?
8. What makes a canine tooth able to tear food?
9. Give one way of conserving plant resources in the environment.
10. State the danger of eating unwashed fruits and vegetables.
11. Write down one sign of pest damaged crops.

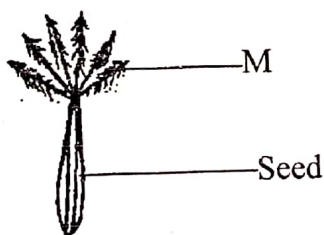
The diagram below shows a simple machine. Use it to answer question number 12.



12. Which force is applied at point M when using the machine in the diagram above?

13. Why should all schools in Uganda have young farmers' club?
.....
14. Which kind of energy is produced by the power of running water?
.....
15. How are adult butterflies useful to flowers?
.....
16. Which digestive juice is produced by the liver?
.....
17. State the form of energy which enables human beings to see.
.....
18. Give any one way biogas can be used to conserve environment.
.....
19. Why is honey harvesting carried out in the evening?
.....
20. What is the use of a razorblade in giving first aid?
.....
21. Why do puffballs commonly grow on rotting matter?
.....
22. Which non-metallic conductor of electricity is used in a dry cell?
.....
23. State the relationship between a cat and a rat in terms of their feeding.
.....
24. How long is the gestation period in sheep?
.....
25. Why do fish usually lay very many eggs?
.....
26. Give any one factor which determines food consumption patterns in our communities.
.....
27. Apart from poor feeding, name one other cause of common sickness in a home.
.....
28. Why is butter important in the human diet?
.....

The diagram below shows a black jack seed. *Study and use it to answer questions 29 and 30.*



29. Name the structures marked M in the diagram above.

30. Give the use of the structures marked M to the above seed during dispersal.

31. Name the blood vessels which carry blood away from the heart of the human body.

32. Which object is used in harvesting rain water at home?

33. Why do human lungs expand while breathing in?

34. State any one reason why we rinse clothes.

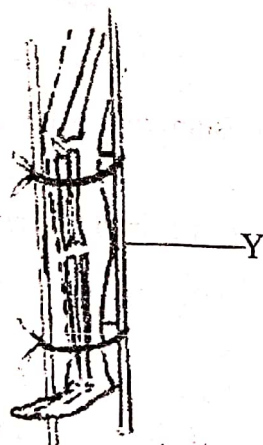
35. Give one benefit of natural methods of family planning.

36. Name the type of clouds which cause rainfall accompanied by thunder storms.

37. How does poultry keeping benefit a crop farmer?

38. Give any one cause of impotence in male human beings.

The diagram below shows structures used to give first aid. Study and use it to answer question No. 39.



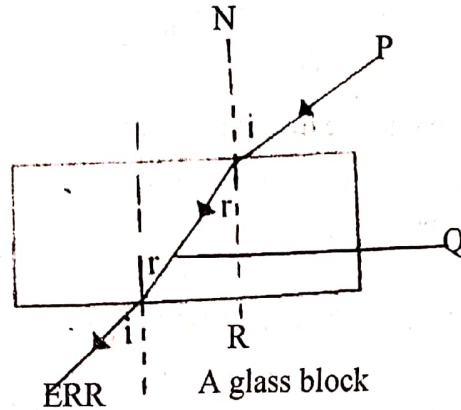
39. Name the structures marked Y on the diagram above.

40. Why is ash added to an ecosan latrine?

SECTION B: 60 MARKS

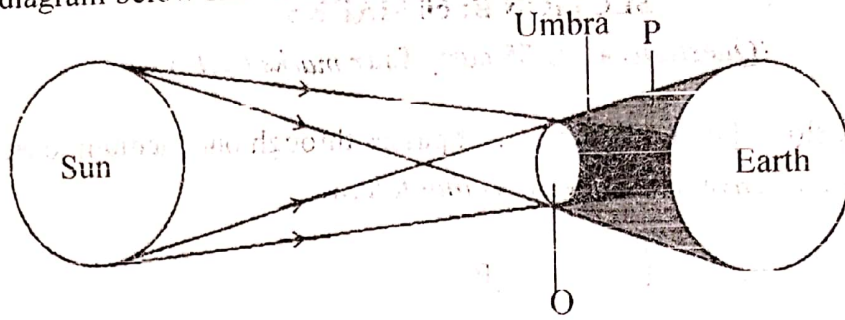
(Questions 41 to 55 carry four marks each.)

The diagram below shows a light ray as it passes through one medium to another. Study and use it to answer the questions that follow.



41. (a) Name the rays of light marked;
- (i) P
- (ii) Q
- (b) What name is given to the angle marked r in the diagram above?
-
- (c) Why does the ray marked Q bend towards the normal line as it moves through the glass?
-
42. (a) Why do goats chew the cud?
-
- (b) How are goats adapted to chewing the cud?
-
- (c) Apart from goats, give two other animals which chew the cud.
- (i).....
- (ii).....
43. (a) Why is measles vaccine administered to babies at nine months?
-
- (b) Give one way a child health card is useful to a parent.
-
- (c) Which two pieces of information are found on the child health card.
- (i).....
- (ii).....

The diagram below shows a natural shadow. Study and use it to answer question 44.



44. (a) Name the natural shadow shown in the diagram above.

 (b) How is the part marked P formed?

 (c) Which heavenly body is represented by object marked O.

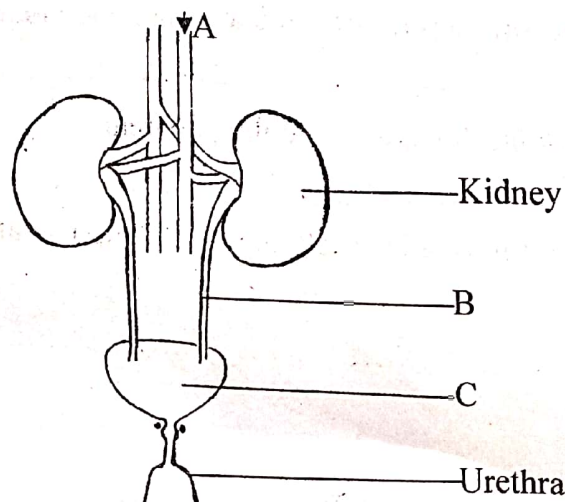
 (d) Name one other type of natural shadow other than one in the diagram above.

45. (a) State the age recommended for weaning babies.

 (b) Why do babies need to be weaned as they grow up?

 (c) Give any two food materials recommended for weaning babies.
 (i).....
 (ii).....
46. (a) Name any two exotic breeds of cattle.
 (i).....
 (ii).....
 (b) Give two reasons why farmers prefer keeping exotic breeds of cattle.
 (i).....
 (ii).....

The diagram below shows the urinary system in the human body. Study and use it to answer questions that follow.



47. (a) Name the parts marked;
- (i) **B**
- (ii) **C**
- (b) What is the role of the blood vessel marked **A** in the working of kidneys?
-
- (c) Which waste product is removed from the body by the kidneys?
-
48. (a) Give two ways tobacco is used.
- (i).....
- (ii).....
- (b) Name the form of smoking which involves direct inhaling of smoke from burning tobacco.
-
- (c) How is nicotine dangerous to human health?
-
49. The table below shows Agricultural practices (M) and their benefits to the farmer (Y).
Match them correctly.

	Practice (M)	Benefits to the farmer
(i)	Mulching	Controls the speed of running water
(ii)	Crop rotation	Helps land to regain its fertility
(iii)	Contour ploughing	Breaks the life cycle of pests and diseases
(iv)	Bush fallowing	Materials used turn into humus which increases soil fertility

- (i) Mulching
- (ii) Crop rotation
- (iii) Contour ploughing
- (iv) Bush fallowing
50. (a) Give any two ways HIV/AIDS is spread.
- (i).....
- (ii).....
- (b) State any two ways of preventing HIV /AIDS infection in human beings.
- (i).....
- (ii).....
51. (a) Give two roles of the worker bees in a hive.
- (i).....
- (ii).....
- (b) How do worker bees defend the hive?
-
- (c) Why is a worker bee unable to lay eggs yet it is a female?
-

52. (a) Name the group of musical instruments to which the bell belongs.

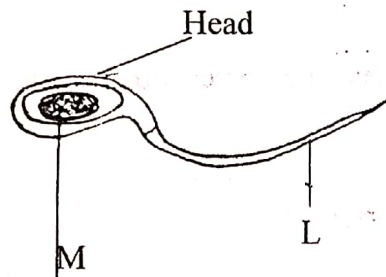
(b) Give two instruments which belong to the same group as bells.

(i).....

(ii).....

(c) How are the above musical instruments played?

The diagram below shows a cell gamete. *Study and use it to answer question 53.*



53. (a) Name the parts marked;

(i) L

(ii) M

(b) Give the role of part marked L in the diagram above.

(c) Which body fluid enables the above cell to swim through the vagina?

54. The table below shows types of bones in the human body and their examples.

Complete it correctly.

	Types of bones	Examples of bones
(i)	Short bones
(ii)	Scapula
(iii)	Irregular bones
(iv)	Femur

55. (a) Name two processes involved in the formation of rain.

(i).....

(ii).....

(b) State the major role of trees in the formation of rainfall.

(c) How is water which comes from rain maintained in the environment?

