THE E-LEARN EXAMINATIONS BOARD

B.O.T ONE EXAMINATIONS 2023

PRIMARY SEVEN

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Pupil's Name: .....

Pupil's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** 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 **13** printed pages altogether.
3. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
5. 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		

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Turn Over

SECTION A: 40 MARKS

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

1. Name the best soil for growing crops.

   .....

2. Give one example of a fingered mammal.

   .....

3. How does painting prevent rusting of metals?

   .....

4. Name one bird that can fly forward and backwards without changing its physical direction.

   .....

5. Why is ironing of clothes a good health practice?

   .....

6. State one danger of deforestation to the environment.

   .....

7. Why is burning of wood to ash referred to as a chemical change?

   .....

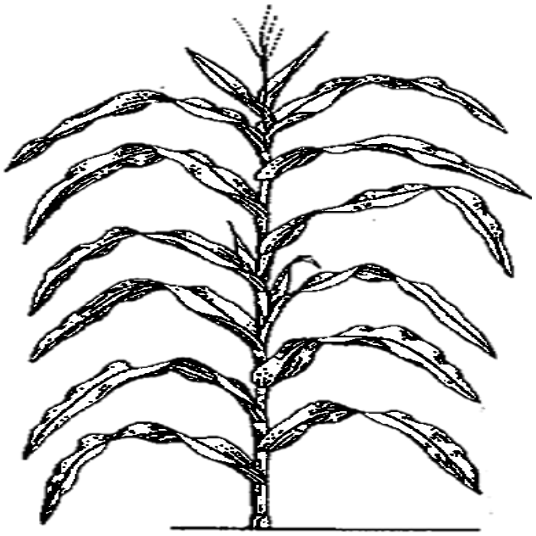
8. Why is a spider not regarded as an insect?

   .....

9. What is the gestation period of a ewe?

   .....

The diagram below shows the structure of a **maize plant**. Study and use it to answer question **10**.



10. Name the type of roots found on the above plant.

.....

11. Give any one property of matter.

.....

12. Mention one disease of poultry caused by a virus.

.....

13. Why do some trees shed their leaves during a dry season?

.....

14. Suggest one reason why bees abscond their habitats.

.....

15. State any one way through which germs enter our bodies.

.....

16. What type of energy is possessed by a stone before it reaches the ground?

.....

Turn Over

17. How do bees and wasps protect themselves?

    .....

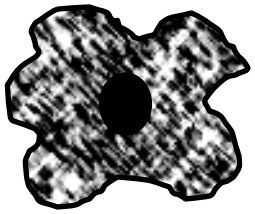
18. State a reason why the teeth of a snake points backwards?

    .....

19. How is the life cycle of a grasshopper similar to that of a locust?

    .....

The diagram below shows the structure of a blood cell. Study it and answer question **20**.



20. Name the blood cell shown above.

    .....

21. What is meant by the term immunity?

    .....

    .....

22. How is sound produced?

    .....

23. Give one anti-social behavior in our community.

    .....

24. What causes scabies?

    .....

25. Why do veins in the body have valves?

.....

26. Name the danger of drought in the environment.

.....

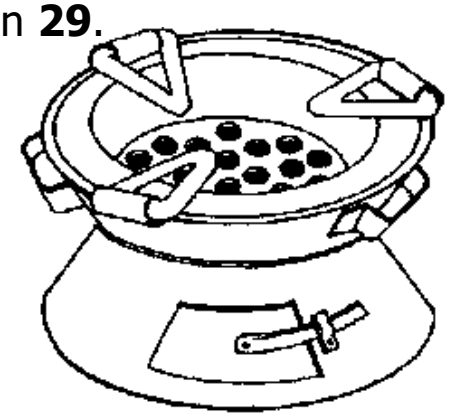
27. State one disorder of the digestive system.

.....

28. Why are crustaceans called so?

.....

The diagram below shows a metallic charcoal stove. Study and use it to answer question **29**.



29. How is the above resource important at home?

.....

30. Why is an egg shell porous?

.....

31. Which part of air is trapped by the bacteria found in the nodules of legumes?

.....

32. Name one method of grazing goats used in rural areas.

.....

33. How are fish similar to amphibians in terms of reproduction?

Turn Over

……

34. Give one example of a poisonous snake.

……

35. State any one communicable disease common in our homes and communities.

……

36. State one disorder of a male reproductive system.

……

37. Give one word used to mean the female part of a flower.

……

38. How does malaria spread from an infected person to a healthy one?

……

39. Why do you think a chameleon changes colour?

……

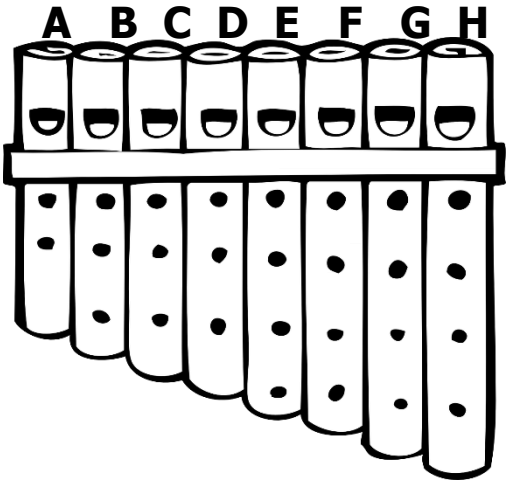
40. Mr. Kakeeto catches enough fish for the family to feed on for a week. Suggest one method the family can use to prevent their fish from going bad.

……

SECTION B: 40 MARKS

Questions in this section carry 4 marks each

41. Study the diagram of a musical instrument and use it to answer questions that follow.



(a) To which group of musical instruments does the one above belong?

.....

(b) Which of the pipes **A B C D E F G H** will produce sound of:

(i) highest pitch:

.....

(ii) lowest pitch:

.....

(c) How does the instrument above produce sound?

.....

42. Name the two types of manure.

(i) .....

(ii) .....

Turn Over

(b) State two disadvantage of using artificial fertilizers.

(i).....

(ii).....

43. Human activities are carried out as shown below.

(i) Draining swamps

(ii) Releasing a lot of smoke from factories.

(iii) Crop rotation

(iv) Dumping polythene bags in soil

(a) Which activity will block water and air from entering soil?

.....

(b) Which activity will cause air pollution?

.....

(c) Which activity will control pests and diseases?

.....

(d) Which activity will cause decrease in the amount of rainfall?

.....

44. (a) What is meant by the term " seed germination"?

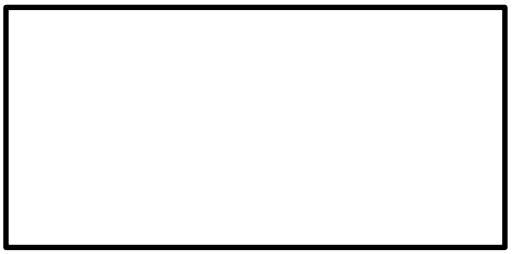
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.....

(b) Mention any one type of germination.

.....

(c) In the space below, draw a diagram to show the type of germination mentioned in (b) above.



(d) Give one condition necessary for seed germination to take place.

……

45. Study the table of immunization below and complete it correctly.

	Disease	**Vaccine**	**Site**
(a)	Tuberculosis	BCG	……
(b)	Measles	……	Left upper arm
(c)	……	Polio vaccine	……

46. (a) Name the smallest stones that are found in the gizzard of a bird.

……

(b) State what happens to food in the crop of a bird.

……

(c) Apart from using their beaks, how else do birds protect themselves?

……

(d) In the space below, draw the foot of a swimming bird.

Turn Over

47. (a) Name the part of air that forms the least percentage.

……

(b) Give one component of air.

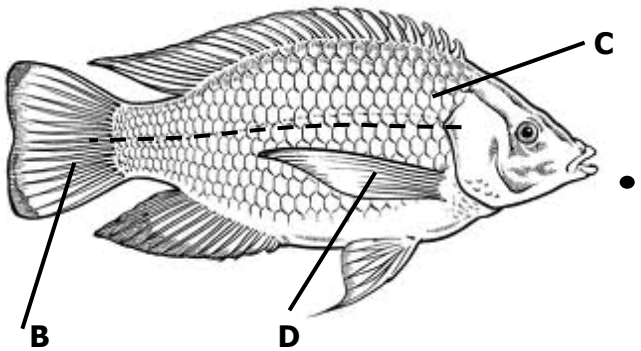
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(c) Which property of air enables one to drink soda from a straw?……

(d) Why is air called a mixture of gases?

……

48. Study the diagram of a fish below and use it to answer the questions that follow.



(a) Name parts labelled with letters **B** and **D**.

B. ……

D……

(b) State the importance of the feature marked with letter **B** to the fish.

……

(c) Give any one characteristic that enables a fish to stay in water.

……

49. (a) Define the term mammals.

……

……

(b) State any two characteristics of mammals.

(i) ……

(ii)……

(d) Mention one egg-laying mammal.

……

50 (a) Identify any two milk products.

(i)……

(ii)……

(b) State one way how you can stimulate milk letdown in a cow

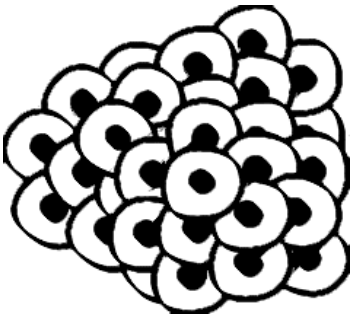
(i)……

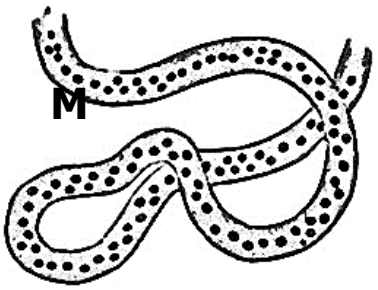
(c) Write one bacterial disease that affects the udder of a cow

……

51. The diagrams below show two different kinds of eggs. Use them to answer questions that follow.

Turn Over

N 



(a) Name the animal that lays eggs shown by letter:

(i) **N** .....

(ii) **M**.....

(b) Why do amphibians lay their eggs on water.

.....

(c) How are eggs of amphibians protected from predators.

.....

52. (a) Where does fertilization occur in women?

.....

(b) Give any two parts of a female reproductive system

.....

(c) How is oestrogen hormone produced by ovaries important?

.....

53. (a) What is an accident?

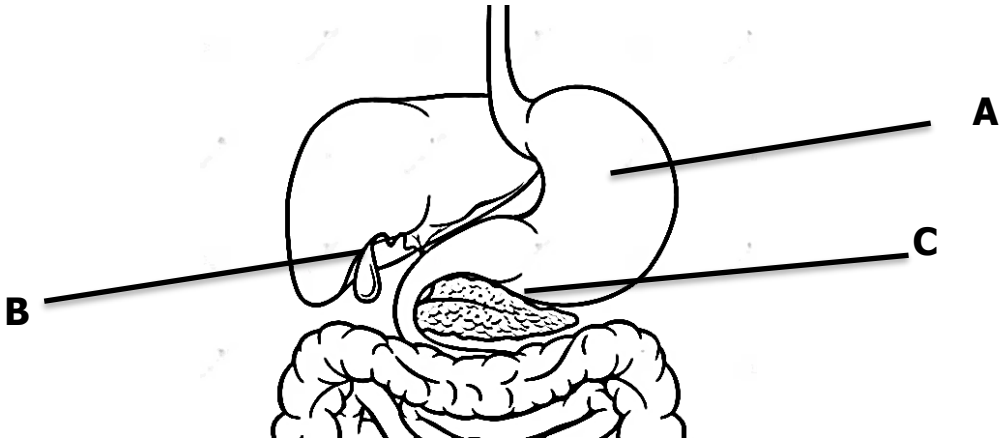
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(b) Give any two reasons for giving First Aid.

.....

(c) Mention one quality of a good First Aider.

54. Study the diagram below and answer the questions that follow.



(a) Name the part marked with letter **C**.

……

(b) State the function of part labelled **B**.

……

(c) Name the class of food which is first digested at **A**?

……

(d) Mention any one disorder of the digestive system.

……

55. (a)What is meant by the term weeding?

……

……

(d) List two ways of weeding crops.

(i)……

(ii)……

(d) Suggest any one way a farmer can use weeds.

……

END