

SHEEMA DISTRICT EXAMINATIONS BOARD
PRIMARY LEAVING MOCK EXAMINATION 2024
INTEGRATED SCIENCE

Time Allowed 2 hours 15 minutes

RANDOM NUMBER						PERSONAL NUMBER		

Candidate's Name

Candidate's Signature

School Name

Read the following instructions carefully

1. This paper has two sections A and B. Section A has 40 questions and section B has 15 questions.
2. Answer all questions. All answers to both sections A and B must be written in spaces provided.
3. All answers must be written using blue or black point pen or ink. Any work written in pencil 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 EXAMINER'S USE ONLY and boxes inside the question paper

FOR EXAMINER'S 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. Name one example of a machine that belongs to third class levers.
.....
2. Give one element of weather that helps in seed dispersal.
.....
3. Apart from carbon dioxide, name one other waste product removed by the lungs from the body.
.....
4. In which way does the use of solar electricity for cooking conserve the environment?
.....
5. What causes ringworm infection?
.....
6. State one piece of advice you can give to children to prevent constipation among themselves.
.....

The diagram below shows a foot of a bird, study and use it to answer question 7 and 8.



7. Name the group of birds with the type of foot shown above.
.....
8. State the function of part P to the group of birds shown above.
.....
9. How is the cause of burns similar to that of scalds?
.....
10. What term refers to the practice of growing crops and trees together on the same piece of land?
.....
11. Which method of heat transfer helps farmers to dry their harvested crops?
.....
12. How can foot and mouth disease be controlled on a cattle farm?
.....
13. State the importance of hanging greens in a poultry house.
.....
14. Name the property of magnets that help sailors to find direction while performing their work.
.....
15. Give a reason for wringing clothes before they are dried.
.....

16. Write one example of an animal fibre.
17. Apart from production of ova, mention one other use of ovaries of the female reproductive system.
18. State the functional similarity between the lateral line of the fish and the human ear.
19. Why should a pigsty be made with a slanting floor?

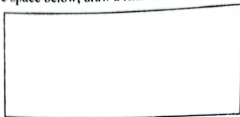
The diagram below shows one of the properties of air. Study it carefully and answer question 20 and 21.

Balloon



20. Which property of air is demonstrated above?
21. Write any one application of the property of air named in no 20 above.
22. Give a reason why hyenas are always seen following lions during the process of looking for food.
23. What process makes dew to disappear during hot days?
24. Give one difference between the air we breathe in and the air we breathe out.
25. Why do toilet cleaners always put on gloves and gumboots when performing their work?
26. Give one disadvantage of people living with potted plants in their bedroom.
27. How is a moth able to locate flowers at night?
28. Name any one part of the human body where pivot joint is found?
29. Identify the method of harvesting wood mainly for timber production.

30. Give a reason why electric wires are loosely fixed between the electric poles.
.....
31. What is the purpose of dipping the injured part in clean cold water when giving first aid for a burn?
.....
32. In the space below, draw a lens used to correct long sightedness.



33. Find the density of an object whose mass is 20g and volume is 5cc.
.....
34. What type of root system does a maize plant have?
.....
35. How do health workers force mercury to go back to the bulb of a clinical thermometer before using it to another patient?
.....
36. Which immunisable disease is caused by bacteria and spreads through drinking milk from infected cows when not boiled well?
.....
37. Name the human body organ that allows gaseous exchange.
.....
38. Identify one activity of sanitation which reduces the spread of malaria in a community.
.....
39. What is the danger of fresh water snails to human beings?
.....
40. Give a reason why stale air passes through ventilators not windows.
.....

SECTION B

41. (a) Define the term photosynthesis?
.....
- (b) Outline the two raw materials needed for photosynthesis to take place.
(i).....
(ii).....

(c) Which component of air is given out during photosynthesis?

42. (a) Besides physical changes, name any other two types of changes in the environment.

(i).....

(ii).....

(b) State one characteristic of physical changes

(c) Give one effect of physical changes in the environment.

43. (a) What is pitch as used in sound?

(b) Besides frequency, state any other two factors that affect the pitch of sound.

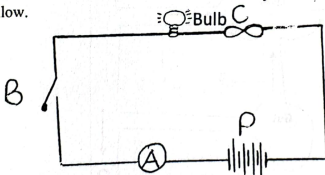
(i).....

(ii).....

(b) How does frequency affect the pitch?



44. The diagram below shows an electric circuit. Study it carefully and answer questions that follow.



(a) Name the part of the circuit labeled C?

(b) Which form of energy is stored at P?

(c) How is the work of part B similar to the work of part C when the circuit is complete?

(d) State the energy change that will take place at part P when the circuit is complete.

45. (a) Which type of soil erosion occurs when the top soil is uniformly eroded by wind or flowing water?

(b) state any one effect of cultivating along river banks and lake shores.

(c) State any two advantages of artificial fertilizers over natural fertilizers.

(i).....

(ii).....

46. (a) Name any two examples of essential drugs.

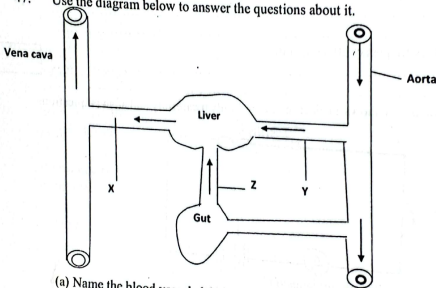
(i)

(ii)

(b) Mention any one characteristic of essential drugs.

(c) Why is it not good to buy drugs from local shops?

47. Use the diagram below to answer the questions about it.



(a) Name the blood vessels labelled,

i. X.....

ii. Y.....

(b) Give a reason why blood in blood vessel Z is carried to the liver.

(c) State the excretory function of the liver.

48. A part from oxygen, name any other component of air.

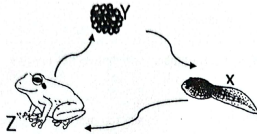
(b) Which component of air is used;

(i) for preservation of semen?

(ii) for preservation of soft drinks?

(c) Give a reason why a bottle of soda will burst after it is put in a refrigerator for a long time?

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



Name the stage of life cycle marked with letter Y.

- (a) Which amphibian has the life cycle shown above?
- (b) State the difference in terms of breathing between stage X and Z while in water.
- (c) Name one other example of amphibian in the environment
50. (a) State the importance of each of the following parts of a flush toilet.
- Water tank.....
 - Septic tank.....
- (b) Give one negative effect of using hard materials after using a flush toilet.
- (c) Give one reason why the septic tank should be covered.
51. The diagram below shows a structure used in a certain system of keeping poultry. Use it to answer questions that follow.



- (a) What scientific name is given to the above portable house?

- (b) State the importance of structures marked Q on the diagram above.
- (c) Give one advantage of using the above system of keeping poultry.
- (d) Besides the system shown by the diagram above, identify any one other system of keeping poultry which cannot be used in towns.

52. (a) Give any two examples of root tubers.

- (i).....(ii).....
- (b) Identify the method of harvesting root tubers which does not involve the use of garden tools.

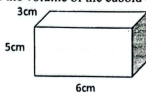
(c) Write one biological method of controlling tuber crop pests in the garden.

53. Complete the table below correctly

Vector	Disease
cockroach	(i).....
.....	Rabies
Blackfly	(iii).....
(iv).....	Malaria

54. (a) Find the volume of the cuboid below

(2mks)



(b) Give one difference between mass and weight

(c) Which force enables a boat to float on water?

55. In four sentences, describe how you can obtain clean milk from a cow given the following materials needed when preparing for milking, a rope, clean milking bucket, a strip cup and warm water.

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

END