



THE SPECTRUM EXAMINATIONS HUB

P.L.E MOCK EXAMINATIONS, 2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

EMIS No.						Personal No.		

Pupil's Name:

School Name:

District Name:

Read the following instructions carefully:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. No calculators are allowed in the examination.
7. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the table indicated; "For examiners' use only" and the boxes inside the question paper.

FOR EXAMINER'S USE

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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SECTION: 40 MARKS

1. Name the method of preserving food that involves the use of ice cubes.
.....
2. Give anyone example of arachnid that is a danger to cattle.
.....
3. Name the force that enables a cesspool emptier to suck faeces from a toilet.
.....
4. Give a reason why food is digested in the body.
.....
5. How is a recycling of wastes important to the environment?
.....
6. What is the use of ORS to a child with diarrhea?
.....
7. State the property of light that helps in the formation of eclipses.
.....
8. Name the method of seed dispersal that does not involve an agent.
.....

9. How are gases similar to liquids as states of matter?

.....

10. Why do malaria victims always develop anaemia?

.....

11. Name the body sense that helps a P.7 candidate to detect pain when
canned by his science teacher?

.....

12. By what process does food and oxygen enter the placenta?

.....

13. Name the electrical symbol shown in the diagram below.



.....

14. In which way does a candle manufacturer benefit from keeping
bees?

.....

15. How does buoyancy (upthrust force) affect the weight of an object
in water?

.....

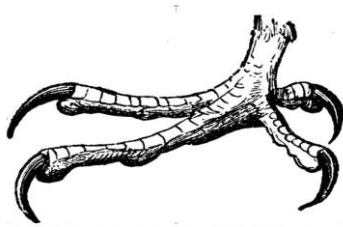
16. In which way is lightning similar to nitrogen fixing bacteria in the way they function?

.....

17. How does a single fixed pulley make work easy?

.....

The diagram below shows the foot of a certain group of birds.
Study it carefully and use it to answer questions 18 and 19.



18. Identify the group of birds with the above foot.

.....

19. How is the structure above different from those of perching birds?

.....

20. Which instrument is used for measuring the density of liquids?

.....

21. In which way does the production of biogas help to promote sanitation in an area?

.....

22. Which property of air helps a mechanic to inflate a car tyre?

.....

23. Name the vaccine given to adolescent girls to protect them against tetanus during menstruation period.

.....

24. State the importance of a heat source put in a brooder when caring for chicks.

.....

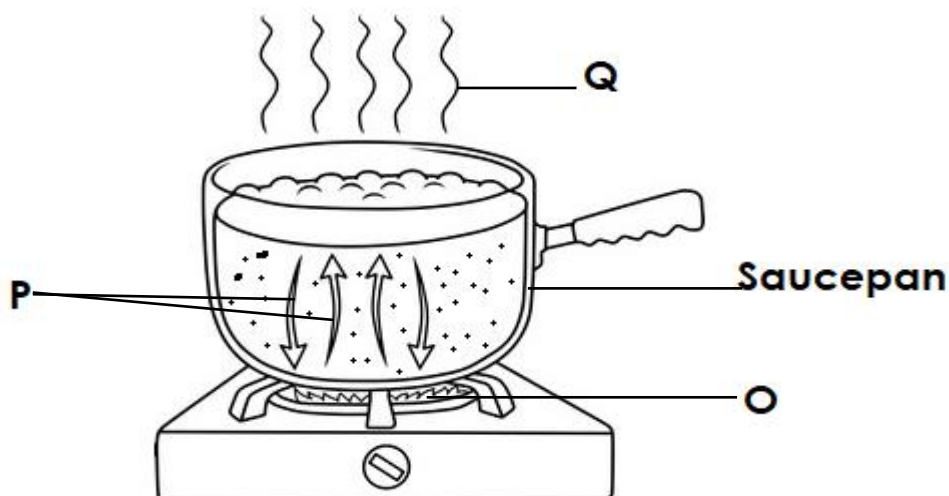
25. Give any one reason why honey does not go bad yet it is food.

.....

26. Which vector breeds in fast flowing water?

.....

The diagram below shows transfer of heat through matter. Study carefully and use it to answer questions 27 and 28.

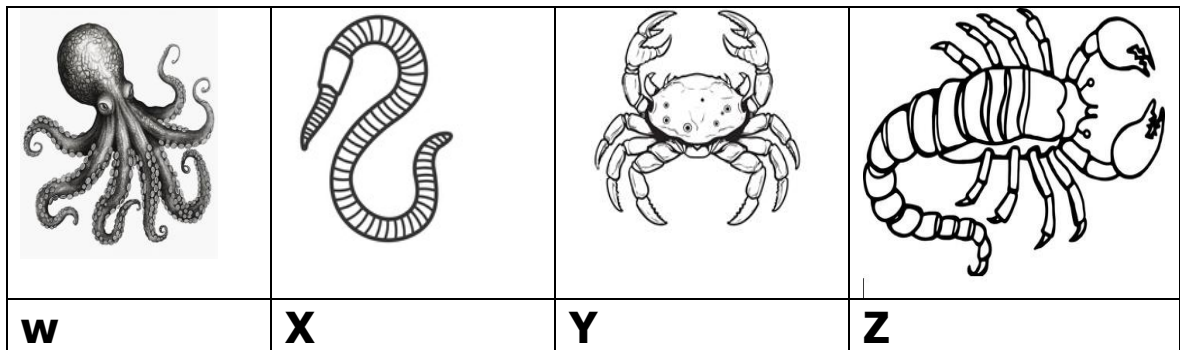


27. What do arrows marked P represent on the above diagram?
.....
28. How does heat at O reach the saucepan?
.....
29. Mention the type of teeth that develops first in babies.
.....
30. How is the skeleton important to the circulatory system?
.....
31. In which way is the yeast important during fermentation of alcohol?
.....
32. Give any one way of determining the polarity of an electromagnet.
.....
33. Name the pigment that helps to protect the skin against strong radiations from the sun.
.....
34. In the space provided below, draw a lens that produces a divergent beam of light.

35. Give the importance of micropyle to a germinating bean seed.
.....
36. Which fungal disease that presents with the following signs and symptoms; itchy skin sores, blisters all over the skin and rough pimples on the skin.
.....
37. Why is it not advisable to put salt on a burnt or scalded part on the skin?
.....
38. In which way does painting protect metallic tools from rusting?
.....
39. Of what importance is local salt to a crop farmer?
.....
40. Give a reason why a woman and a husband suffering from gonorrhea should go for treatment together.
.....

SECTION B (60 MARKS)

41. The diagrams below show invertebrates. Study carefully and use them to answer questions that follow.



(a) To which group of arthropods does animal Y belong?

.....

(b) How is reproduction in animal Z different from all other animals shown in the table above?

.....

(c) Give any one way in which animal X is important in the environment.

.....

(d) Write down any one other example of an animal that belong to the same group with animal W.

.....

42. (a) Which element of primary health care helps to check the size of a family?

.....

(b) In which way is maternal and child health care important in the community?

.....

(c) Give any two health care services which are provided through maternal and child health.

(i).....

(ii).....

43. (a) Write down any one sign of AIDS.

.....

(b) Give any two effects of AIDS to an individual.

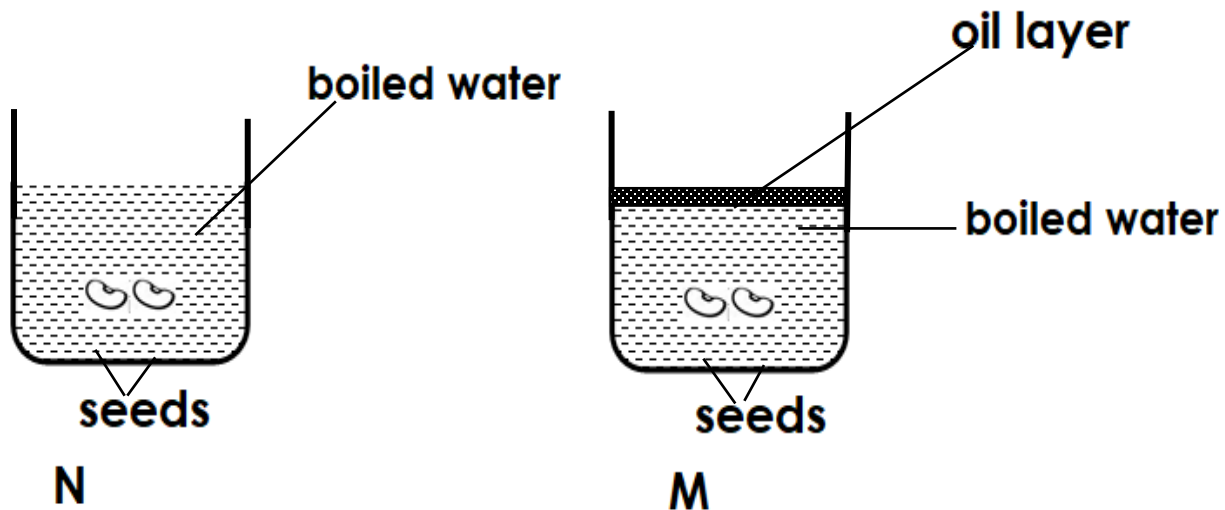
(i).....

(ii).....

(c) How best can a primary seven pupil prevent him/herself from contracting AIDS?

.....

44. The diagrams below show conditions necessary for germination to take place. Study carefully and use it to answer the questions that follow.



- (a) Why was the water in the two containers boiled first?

.....

- (b) Give a reason why the containers;

- (i) N was left open.

.....

- (ii) M was covered with an oil layer.

.....

- (c) In which of the two containers did the seed germinate?

.....

45. (a) How does draining of stagnant water help to control the breeding of Malaria?

.....

(b) Give any two ways in which mosquitoes can be controlled in the community using biological means.

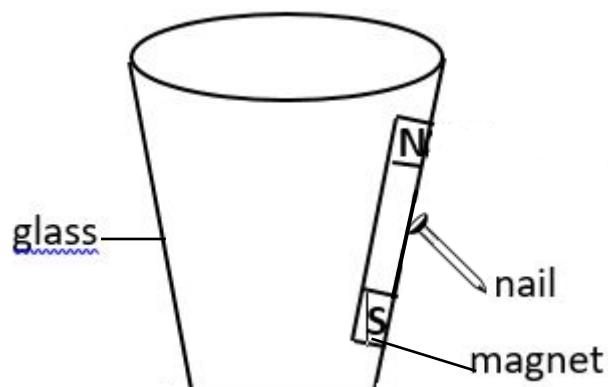
(i).....

(ii).....

(c) Why does the government of Uganda provide free mosquito nets to its people?

.....

46. The diagram below shows a property of magnet. Study it carefully and use it to answer the questions that follow.



(a) Identify the property of magnet shown in the above diagram.

.....

(b) What happens to the nail when the magnet is removed out of the glass?

.....

(c) How important is the above property of magnet to people?

.....

(d) Give any one example of a mixture that can be separated using a magnet.

.....

47. (a) What does the term fainting mean?

.....

.....

(b) Why is it advisable to put a person who has fainted in an open place?

.....

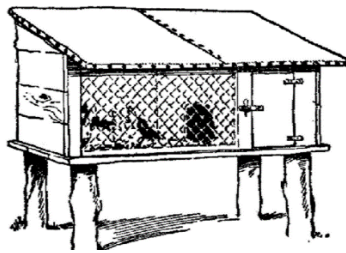
(c) What is the importance of performing a kiss of life to a near drown victim?

.....

(d) Mention any one place where near drowning can take place.

.....

48. The diagram below shows rabbit hutches. Study them carefully and answer the questions that follow.



S



R

(a) Name the rabbit hutches marked R and S.

(i) s..... (ii) R.....

(b) Give the importance of wire mesh on the rabbit hutch R.

.....

(c) Write down any one advantage of rearing rabbits.

.....

49. (a) Write down any two examples of craft products.

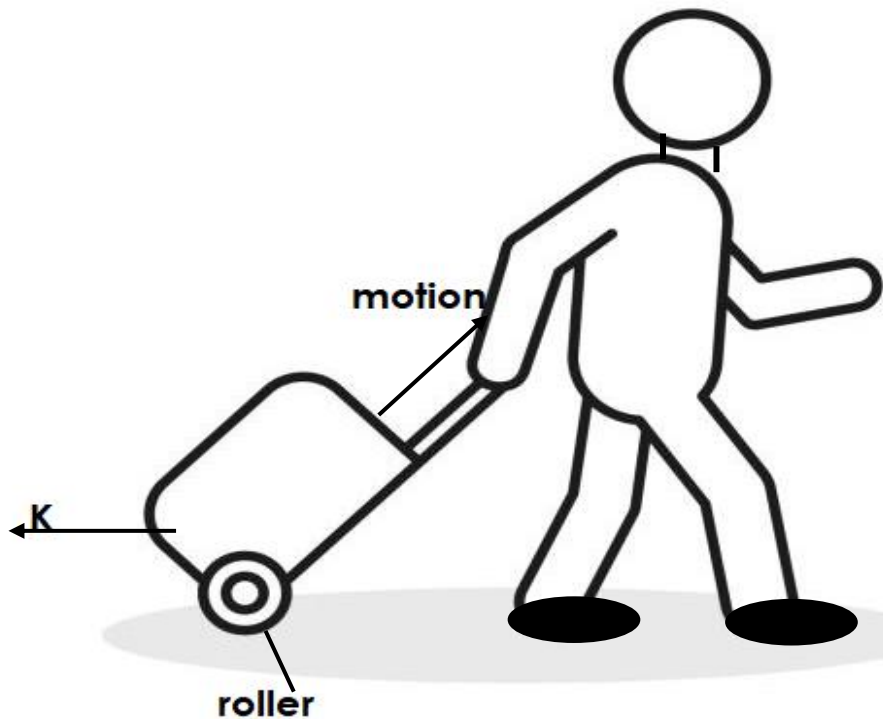
(i)..... (ii).....

(b) Give any two ways in which craft products are useful to people.

(i).....

(ii).....

50. The diagram below shows a boy pulling a suit case on the ground. Study it carefully and use it to answer the questions that follow.



- (a) Name the force represented by letter K.

.....

- (b) Give any two advantages of the force represented by letter K.

i).....

ii).....

- (c) State any one way in which the named force can be dangerous in daily life.

.....

51. (a) What is meant by the term malnutrition?

.....

.....

(b) Give any one example of mineral deficiency diseases.

.....

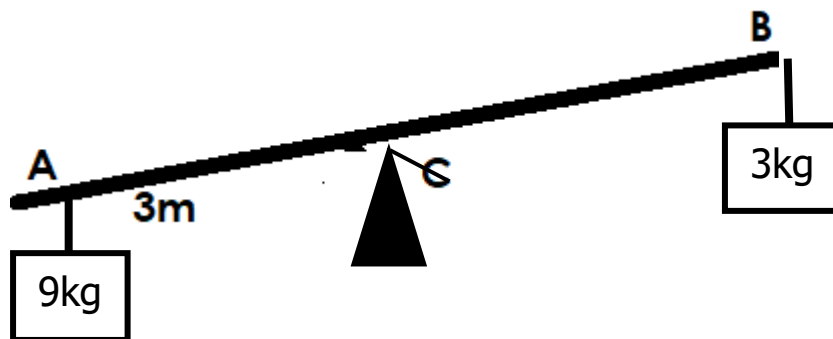
(c) Mention any one cause of malnutrition in children.

.....

(d) How best can malnutritional diseases be prevented?

.....

52. The diagram below shows a weighing scale showing a lever. Study it carefully and answer the questions that follow.



(a) To which class of lever does it belong?

.....

(b) Name point marked C.

.....

(c) Calculate the length AB.

(2marks)

53. (a) Name the group of crops that provides single harvest in a year.

.....

(b) Give any two examples of crops that belong to the group of crops named in (a) above.

(i).....

(ii).....

(c) Mention any one method of harvesting tuber crops.

.....

54. You are provided with the following materials;

water, fire, dry plant material, and a porous based container. Write four steps you would take to make local salt using the above given materials.

i).....

ii).....

.....

iii).....

.....

iv).....

55. (a) Why do farmers prefer keeping local goats over exotic ones?

.....

(b) Name any two breeds of goats reared for the production of milk.

(i).....

(ii).....

(c) In which way does the rearing of angora goats contribute to the development of textile industries?

.....

THE END