

## MID-TERM TWO EXAMINATIONS 2023

### Primary Seven

### INTEGRATED SCIENCE

**Time allowed: 2 hours 15 minutes**

**Index No.**

Random No.						Personal No.		

**Candidate's name:** .....

**Candidate's signature:** .....

**School Random number:** .....

**District No. :**

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**Read the following instructions carefully:**

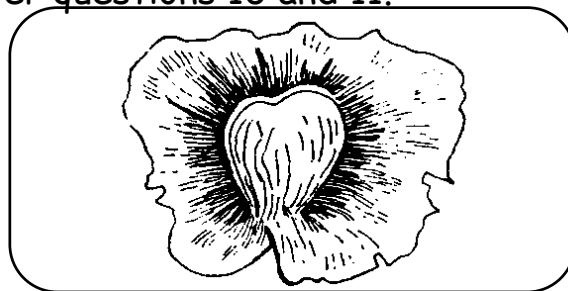
1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 printed papers** altogether.
3. Answer **all** questions. **All** the answers for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagrams.
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 the 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		
<b>TOTAL</b>		

## SECTION A (40 MARKS)

1. Name one component of a residential house which allows in light.  
.....
2. State the main reason for rearing Angora goats.  
.....
3. Why does the action of amylase stop as the food bolus reaches stomach?  
.....
4. State one difference between the frogspawn and toadspawn.  
.....  
.....
5. Which physical process enables a person to obtain salt from salt solution?  
.....
6. How do third class lever machines simplify work?  
.....
7. Why should sick people always be fed on food rich in vitamins?  
.....
8. State the function of oxygen during respiration.  
.....
9. Give any one reason why patients should not buy drugs from local shops.  
.....

The diagram below shows a seed with wing-like structures. Study it carefully and answer questions 10 and 11.



10. Name any one seed with the structures shown above.  
.....
11. How does the seed shown above benefit from its wing-like structures during wind dispersal?  
.....  
.....

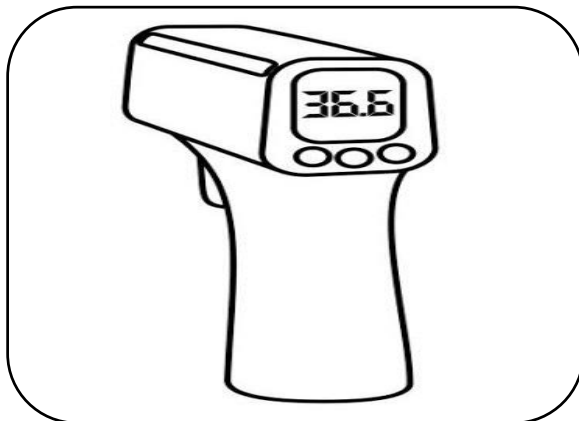
12. Mention one characteristic that enables a turtle to live in water.  
.....
13. Why does a butterfly lay its eggs on the underside of the plant leaves?  
.....
14. In which one way does growing of sisal crops promote tethering?  
.....
15. How does the deficiency of Vitamin B<sub>3</sub> affect infants?  
.....
16. By what process does smoke from burning wood spread in the kitchen?  
.....
17. Why is cholera regarded as a faecal disease?  
.....  
.....
18. How is the function of COVID-19 messages similar to that of PIASCY messages in the control of communicable diseases in school community?  
.....  
.....
19. Mention any one way of harvesting minerals in the environment.  
.....
20. How does strong cohesion affect matter?  
.....
21. Give any one reason why farmers hang green leafy vegetables in poultry houses.  
.....

Saucepans P and Q in the diagram below are of the same size. Study them and answer questions 22 and 23.



22. In which saucepan will food get boiled last?  
.....
23. Give a reason for your answer in (22) above.  
.....
24. Why is bush fallowing regarded as a useful practice in crop growing?  
.....
25. Name the livestock raised under cuniculture for its meat or wool.  
.....
26. State any one function of gonads in reproduction.  
.....
27. Why should the elderly people be fed on soft food?  
.....
28. Write down any one importance of biological changes in the environment.  
.....
29. State the reason why the light ray moving from clear air to clear water bends towards the normal.  
.....  
.....
30. Give any one danger of siltation to aquatic life.  
.....
31. Mention any one condition that can lead to bee sting.  
.....
32. Why do sex workers have a very high risk of getting HIV/AIDS?  
.....
33. Mention any one effect of heat loss on matter.  
.....
34. Name the part which prevents internal light reflection in the human eye.  
.....
35. How is a woodpecker able to make holes in trees?  
.....
36. Give a reason why a skink drop its tail when touched.  
.....

The diagram below shows a type of thermometer. Study it carefully and answer questions **37** and **38**.



37. Name the type of thermometer shown above.

.....

38. How does the use of the above type of thermometer control the spread of contagious diseases?

.....

.....

39. In which one way do weeds affect crops in the garden?

.....

40. Name one viral disease in sheep.

.....

## SECTION B (60 MARKS)

41. (a) Name the type of alcohol produced by fermentation.

.....

(b) State the importance of fungi in fermentation of alcohol.

.....

(c) Mention any one myth about alcohol.

.....

(d) State the importance of a breathalyzer to the traffic police.

.....

42. (a) Name the part that a moth uses to detect scented flowers for pollination at night.

.....

(b) State what happens when pollen grains land on stigma.

.....

(c) Which biological process occurs in a flower after pollination?

.....

(d) How is a passion fruit plant adapted to cross pollination?

.....

43. The table below shows animals in various groups of vertebrates. Study it and answer questions that follow.

W	X	Y	Z
Tilapia Nile perch	Bat Whale	Crocodile Chameleon	Newt Salamander

(a) To which group of vertebrates do animals in group **Z** belong?

.....

(b) How are animals in group **X** different from those in groups **W**, **Y** and **Z** in the table above?

.....

.....

(c) In which of the groups shown in the table above would you put a goat?

.....

(d) Which group of vertebrates is not represented in the table above?

.....

44. (a) Write **E.M.T.C.T** in full.

.....

(b) Mention any **two** ways of reducing the risks of HIV transmission from an infected mother to her baby.

(i) .....

(ii) .....

(c) Which element of Primary Health Care (P.H.C) improves basic health among mothers and their new born babies?

.....

45. (a) Why do pinworms cause itchy anus at night?

.....

(b) Write down **two** signs of intestinal worms in children.

(i) .....

(ii) .....

(c) State any **one** way of controlling intestinal worm infestation in children.

.....

46. (a) Why should hens turn their eggs regularly during natural incubation?

.....

.....

47. (b) Give any **two** reasons why natural incubation is not recommendable for commercial purposes.

(i) .....

(ii) .....

(c) Mention any **one** way of caring for a broody hen.

.....

48. Match the immunizable diseases in List A below with the signs in List B respectively.

**LIST A**

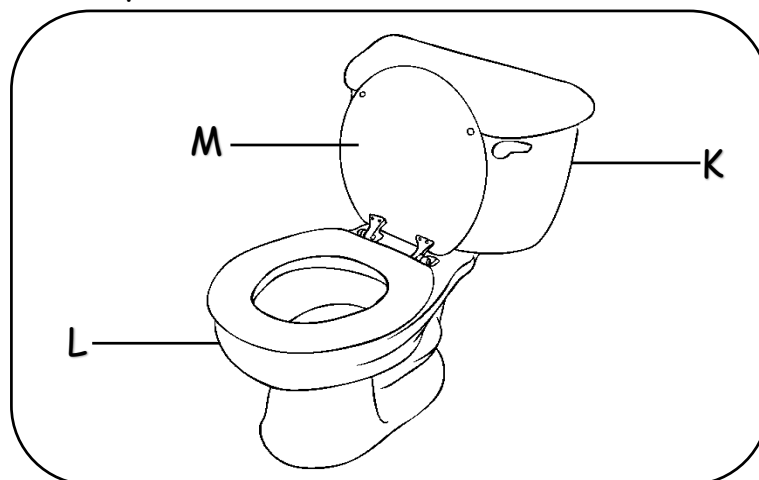
- (i) Tuberculosis
- (ii) Poliomyelitis
- (iii) Pertussis
- (iv) Hepatitis B

**LIST B**

- Dark urine
- Night sweats
- Paralysis
- Runny nose

- (i) Tuberculosis: .....
- (ii) Poliomyelitis: .....
- (iii) Pertussis: .....
- (iv) Hepatitis B: .....

48. The diagram below shows a sanitary facility in an urban home. Study and use it to answer questions that follow.



- (a) Name the sanitary facility shown above.

- (b) Give a reason why the part marked K is raised above part marked L.

- (c) Why is the sanitary facility above not common in most rural homes?

- (d) Give one advantage of using the sanitary facility above over an ordinary pit latrine.



49. (a) Besides increasing voltage, write down **two** ways of strengthening an electromagnet.
- (i) .....
- (ii) .....
- (b) Why is it not advisable to expose a permanent magnet to heat for a long time?
- .....

(c) State **one** use of magnets in hospitals.

.....

50. Study the list of organisms below and answer questions.

Algae

Mushrooms

Ferns

(a) Give any **one** similarity common to all the organisms above.

.....

(b) How is the mushroom different from algae and ferns in terms of feeding?

.....

.....

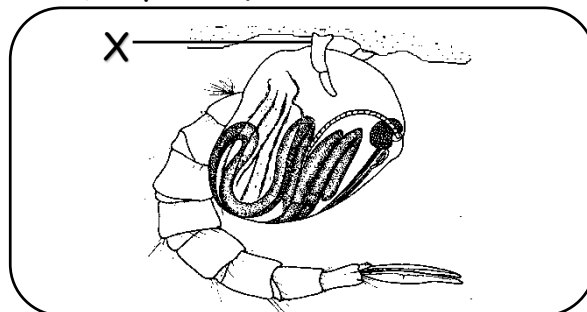
(c) Why are mushrooms very common in wet season?

.....

(d) Name the organism formed by the feeding relationship between algae and fungi.

.....

51. The diagram below shows the mosquito pupa. Study it carefully and answer questions that follow.



(a) What scientific name is given to the mosquito pupa?

.....

(b) State the function of the part marked X to the mosquito pupa.

(c) How does oiling stagnant water control mosquitoes in an area?

(d) In which way does severe malaria lead to malaria?

52. (a) By what process is yoghurt obtained from milk?

(b) Mention any one method of milk preservation.

(c) When does a lactometer float in milk?

(c) Write down one way of acquiring land for setting up a dairy farm.

53. Waldah grew maize crops in the same garden for six consecutive seasons.

(a) What do we call Waldah's practice in crop husbandry?

(b) Write down one disadvantage of Waldah's crop growing practice.

(c) What advice would you give to Waldah?

(d) How does early planting control crop pests?

54. (a) The farmer's rabbits have pale gums, rough hair, blood stained droppings and low appetite for feeds. Which disease are the rabbits likely to be suffering from?

(b) Write down two ways of controlling the above disease in rabbits.

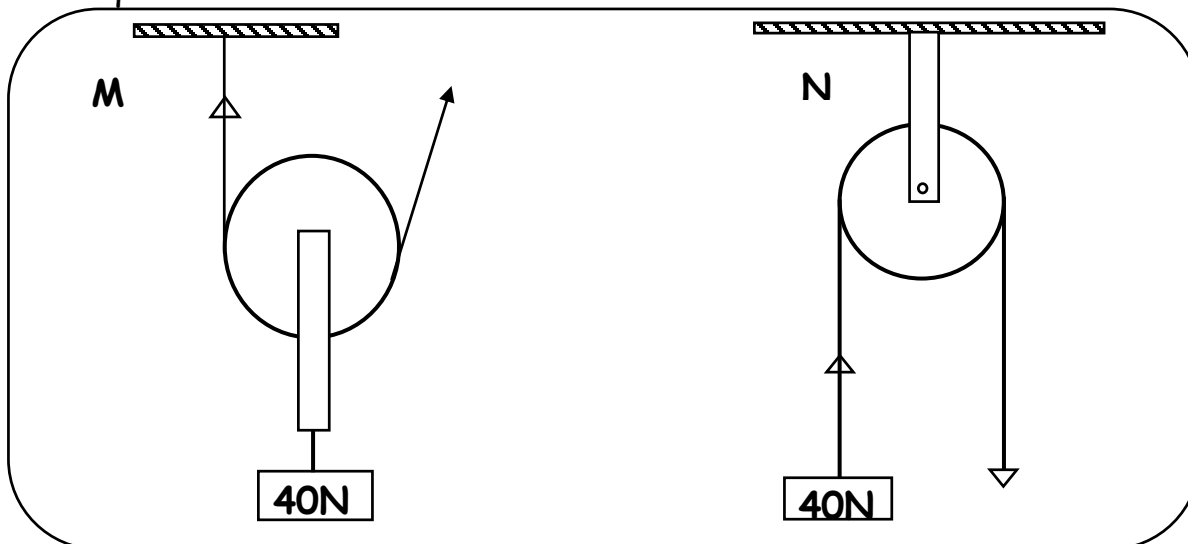
(i) .....

(ii) .....

(c) Besides allowing free air circulation, give one other reason why the rabbit hutch is made of a wire mesh.

.....

55. The diagram below shows types of pulley. Study them carefully and answer questions.



(a) Name the types of pulleys marked **N** and **M**.

- (i) N: .....
- (ii) M: .....

(b) Give one advantage of using pulley **M** over pulley **N** to raise the given load of 40N.

.....

.....

(c) How are the ropes prevented from slipping on the pulleys above?

.....

END