

TAAND EXAMINATIONS BOARD

END OF FIRST TERM EXAMINATION, 2024

PRIMARY SEVEN

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random Number						Personal Number		

Candidate's Name:

Candidate's Signature.....

School's Name

District:

Read the following instructions carefully:

1. This paper is made up of two Sections: A and B.
2. Section A, has 40 short-answer questions (40 marks).
3. Section B has 15 questions (60 marks).
4. Answer **ALL** questions. All answers to both Sections A and B **MUST** be written in the spaces provided.
5. All answers **MUST** be written using a blue or black ball-point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the box indicated "For examiners' use only" and those inside the question paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	Marks	Exrs' 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. Mention the main natural source of heat energy.

2. Name **one** common pest which attacks stored maize.

3. Identify the blood component which helps in blood clotting.

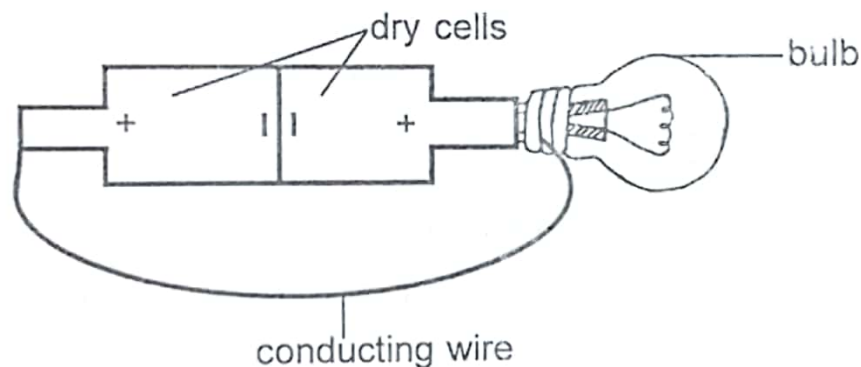
4. State any **one** characteristic of insects.

5. Give the importance of prop roots to a maize plant.

6. Identify the part of a fish which plays a similar function as the human ear.

7. State **one** way an infant can acquire natural immunity.

The diagram below shows two dry cells connected.



8. Why can't the bulb in the above diagram produce light?

9. How are joints useful in the body?

10. Name any **one** device that uses an electromagnet.

11. State **one** way in which energy from water can be used in the environment.

12. How are ferns similar to mosses?

13. How does the sun contribute to the water cycle?

14. Identify the type of bacteria which causes typhoid.

Below is a diagram of a part of a flowering plant. Use it to answer question 15.



15. Name the structure marked **K** on the diagram above.
16. Give any **one** example of a rodent.
17. How is the use of biogas friendly to the environment?
18. By what process does food move along the gullet from the mouth to the stomach?
19. Namaye planted a maize seed and after a few days it germinated. What type of change did the seed undergo?
20. State any **one** disorder of the muscular and skeleton system. ☐
21. Write HIV in full.
22. Give **one** part of the body where a hinge joint is found?
23. How is a moth able to pollinate flowers at night?
24. State **one** value of having regular body physical exercises.
25. How is smoking harmful to a pregnant woman?
26. Identify any **one** method of making magnets.
27. What is meant by the term seed dispersal?

28. Name the hardest part of a tooth.

29. Write **one** farming activity that reduces the hiding places for crop pests in a garden.

30. Give **one** way a P.7 pupil can care for his / her hair.

☐

31. How are the rings of cartilage useful in the trachea?

The diagram below shows a human tooth. Use it to answer question 32.



32. State the function of the above tooth to humans.

33. Name the weapon used by worker bees for protection.

34. Give any **one** item used to promote sanitation at home.

35. How does a hyena benefit from moving along side a lion?

36. Name any **one** type of chicken kept by commercial farmers.

37. State the function of a switch in an electric circuit.

38. Mention **one** plant with root nodules.

39. Name the communicable disease prevented by the use of BCG vaccine.

40. How can lightning be prevented from causing damage to buildings or harm to people.

SECTION B (60 Marks)

Questions 41 - 55, carry four marks each.

41. (a) Name any **two** vulnerable groups of people.
- (i) _____
- (ii) _____
- (b) Write **two** ways of caring for vulnerable groups of people.
- (i) _____
- (ii) _____

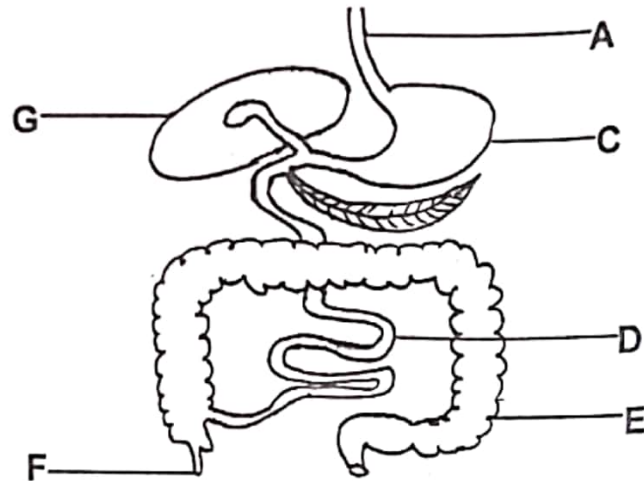
42. **Use the list of animals below to answer questions that follow.**

Frog, Eagle, Spiny ant eater, Crocodile

- (a) Identify a reptile from the list above.
- _____
- (b) Which class of vertebrates is not represented in the list above?
- _____
- (c) Give **one** way in which the reproduction of a frog and that of a spiny ant eater are;
- (i) Similar _____
- _____
- (ii) Different _____
- _____
43. (a) Write SSS in full.
- _____
- (b) Give any **one** cause of dehydration.
- _____
- (c) Give **two** important mineral salts lost during diarrhoea.
- (i) _____
- (ii) _____
44. (a) Why do people in Uganda prefer keeping the local breeds of poultry to the exotic poultry breeds? Give **two** reasons.
- (i) _____
- (ii) _____
- (b) Apart from coccidiosis and newcastle poultry disease, list **two** other diseases that commonly attack poultry.
- (i) _____
- (ii) _____

45.

Study the diagram of the human digestive system below carefully and answer the questions that follow.



(a) Which part of the diagram absorbs the digested food into the blood stream?

(b) Identify **two** enzymes that are found in the digestive juice produced by the part marked C.

(i) _____

(ii) _____

(c) State the part of the diagram where absorption of water takes place.

46. How does heat travel;

(a) From the sun to the earth?

(b) Through solids?

(c) Through liquids and gases?

(d) What is the effect of heat on matter?



47. (a) **Match the items in A with those in B correctly.**

A

Haemoglobin

White blood cells

Red blood cells

Plasma

B

Liquid part of blood.

Are oval shaped.

Have nuclei

Red pigment.

- (a) Haemoglobin _____
- (b) White blood cells _____
- (c) Red blood cells _____
- (d) Plasma _____

48. (a) Explain the term "renewable resources".

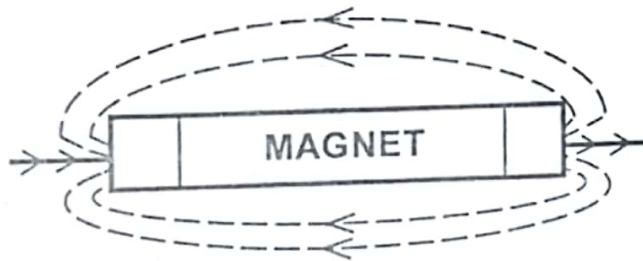
(b) Give **two** examples of renewable resources of energy.

(i) _____

(ii) _____

(c) Why should non-renewable resources be used sparingly?

49. *The diagram below shows a magnet. Use it to answer the questions that follow.*



(a) Use **X** for North and **Y** for South to indicate the poles of a magnet respectively.

(b) Name any **two** methods of making a magnet lose its magnetism.

(i) _____

(ii) _____

50. (a) Mention **two** groups of warm blooded vertebrates.

(i) _____

(ii) _____

(b) How are cetaceans adapted to their living in water?

(c) Apart from having a backbone, why is a lion grouped under vertebrates?

51. (a) What causes malaria?

(b) How is malaria spread?

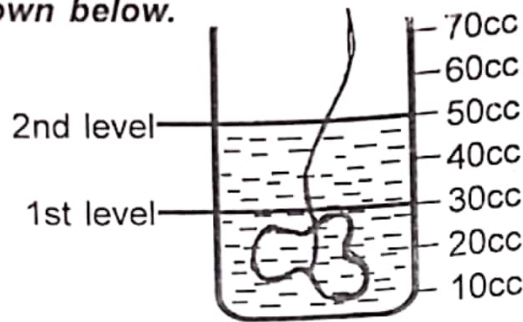
(c) Mention any **two** anti malarial drugs.

(i) _____

(ii) _____

52.

A stone was lowered into a beaker containing some water as shown below.



- (a) What is the volume of a stone?
 (b) What method is used to find the volume of the stone?
 (c) If the stone has mass 60gm, what will the density of the stone be? (2marks)

53. (a) What is a skeleton?

- (b) Name the type of skeleton possessed by a grasshopper.

- (c) Write down atleast **two** functions of a skeleton.

(i) _____

(ii) _____

54. Martha's husband is a great smoker. He usually smokes very close to her.

- (a) How is this practice a danger to the health of Martha?

- (b) Suggest **two** reasons why Martha's husband could be smoking.

(i) _____

(ii) _____

- (c) How can Martha's husband be helped to stop smoking?

55. (a) How is a housefly adapted to spreading germs?

- (b) Name the stage of a housefly which is dormant during its development.

- (c) State any **two** ways of controlling houseflies in our environment.


(i) _____

(ii) _____

****END****

TAAND P.7 SCIE MARKING GUIDE END II, TERM I, 2024

SECTION A

1. The sun.
 2. Rats / Maize weevils.
 3. platelets.
 4. They have three main body parts / They have six legs or three pairs of legs / They breathe by means of spiracles.
 5. They provide extra support.
 6. Lateral line.
 7. Through breast feeding / When recovering from an illness / From the mother before birth.
 8. It is because dry cells were poorly connected.
 9. They allow body movement.
 10. Electric bell / Crane.
 11. To turn turbines in the production of hydro electricity.
 12. Both are non flowering plants / Both are spore bearing plants / Both reproduce by means of spores.
 13. It provides the heat needed for evaporation to take place.
 14. Salmonella typhi.
 15. Lateral bud / axillary bud.
 16. Rat / squirrel / mole / porcupine / rabbit / hare.
 17. It does not pollute the environment.
 18. By peristalsis
 19. Biological change.
 20. Fractures / strains / sprains / burns and scalds.
 21. Human Immuno-deficiency virus.
 22. Knee / elbow.
 23. It is attracted by the strong scent of flowers.
 24. It promotes physical fitness.
 25. It may lead to miscarriage / Giving birth to an underweight baby / Giving birth to a premature baby.
 26. Induction method / Single touch method / Double touch method / Electrical method.
 27. Seed dispersal is the scattering of seeds away from their parent plant over a wide area.
 28. Enamel.
 29. Weeding / Pruning.
 30. By washing it / By combing it / By taking it for trimming.
 31. They keep the trachea open all the time.
 32. To grind food / Chew food / Crush food.
 33. A sting.
 34. Water / broom / brush / soap / slasher.
 35. It feeds on the left overs left behind by a lion.
 36. Broilers / Layers / Dual purpose.
 37. It breaks and completes the circuit on one's wish.
 38. Beans / cow peas / groundnuts / soya bean.
 39. Tuberculosis.
 40. By installing lightning conductors in buildings.
- ## SECTION B
- 41.(a) Pregnant women / Babies / The elderly / The disabled / The sick.
 - (b) Providing them with food / Security / Medical care / Shelter e.t.c.
 - 42.(a) Crocodile.
 - (b) Fish.
 - (c)(i) Both reproduce by laying eggs.
 - (ii) A spiny ant eater undergoes internal fertilization while a frog undergoes external fertilization.
 - 43.(a) Salt Sugar Solution.
 - (b) Starvation / illnesses such as malaria and diarrhoea.
 - (c) Potassium / Phosphorous.
 - 44.(a) Local breeds are more resistant to diseases / They can withstand harsh conditions / They can survive on little food and water / Their meat and eggs are more tasty.
 - (b) Fowl pox / fowl typhoid / pneumonia / Avian leucosis / Blackhead / Grumboro.
 - 45.(a) Part D.
 - (b) Pepsin / renin.
 - (c) Part E.
 - 46.(a) By radiation.
 - (b) By conduction.
 - (c) By convection.
 - (d) It makes matter expand.
 - 47.(a) Haemoglobin - Red pigment.
 - (b) White blood cells - Have nuclei.
 - (c) Red blood cells - Are oval shaped.
 - (d) Plasma - Liquid part of blood.
 - 48.(a) Renewable resources are resources which are replaced by nature.
 - (b) Water / plants / animals / wind / air.
 - (c) To prevent them from extinction.
 - 49.(a)

 - (b) By hammering it repeatedly / By heating the magnet to redness / By keeping the poles together for a long time / Leaving the magnet to rust / Boiling the magnet in hot water.
 - 50.(a) Birds / mammals.
 - (b) They have a fat layer called blubber under their skin which keeps them warm.
 - (c) It has an endo skeleton.
 - 51.(a) Plasmodia.
 - (b) Through bites of female anopheles mosquitoes.
 - (c) Chloroquin / Quinin / Artefan / Coatem.
 - 52.(a) Volume = 50cc - 30cc = 20cc
 - (b) Displacement method.
 - (c) Density = $\frac{\text{Mass}}{\text{Volume}}$
 $D = \frac{60}{20} = 3\text{g/cc}$
 - 53.(a) A skeleton is a structure which supports the body of an organism.
 - (b) Exo skeleton.
 - (c) It supports the body / Allows body movement / Gives the body shape.
 - 54.(a) It makes Martha a passive smoker.
 - (b) To pass time / To concentrate on what he is doing / To feel sophisticated / To fit in his age group e.t.c.
 - (c) By telling him about the danger of smoking / By telling him to read the information written on cigarette packets.
 - 55.(a) It has a hairy body.
 - (b) Pupa.
 - (c) By promoting hygiene and sanitation / By spraying them with insecticides / Proper disposal of human wastes.

END