

MID TERM EXAMINATIONS 2023

PRIMARY SIX

INTEGRATED SCIENCE

DO NOT OPEN THIS BOOKLET UNTIL TOLD TO DO SO

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1** The paper is made up of two sections **A** and **B**.
- 2** Section **A** has **40** questions (**40** marks) and **B** has **15** questions (**60** marks)
- 3** Answer all questions in both sections **A** and **B**.
- 4** All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams and graph work be done in pencil.
- 5** Unnecessary crossing out will lead to loss of marks.
- 6** Poor handwriting, which can not be easily read, may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

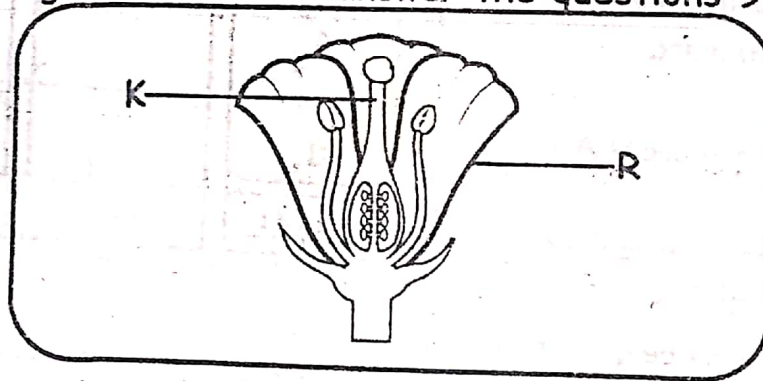
Teacher's comment to the pupil

SECTION: A (40 Marks)

(Questions 1 - 40 carry **one** mark each)

1. Give any **one** element of weather.
Sunshine.
2. Which type of soil has the largest particles?
Sand soil
3. Name the garden tool used for chopping fire wood.
An axe
4. State a reason why farmers debeak their birds.
To control egg eating.
5. Mention the part of the mouth used for tasting.
The tongue
6. Give **one** example of a chemical change.
Charcoal to ash Burning.
7. Name the male sterile bees in the hive.
Drone bee
8. Give any **one** component of a living house.
A door.

Use the diagram below and answer the questions 9 and 10.



9. Name the part marked K.
Style
10. State the function of the part marked R.
To attract pollinators.
11. Give **one** similarity between birds and monotremes in terms of reproduction.
Both reproduce by mating and laying eggs.
12. What name is given to the house of cattle?
Crook
13. State any **one** cause of dehydration in babies.
Diarrhoea Diarrhoea

14. Give any **one** way of controlling soil erosion in hilly areas.

By strip cropping.

15. How do we call air in motion?

Wind is air in motion.

16. Which part of a fish is used for breathing?

Gills.

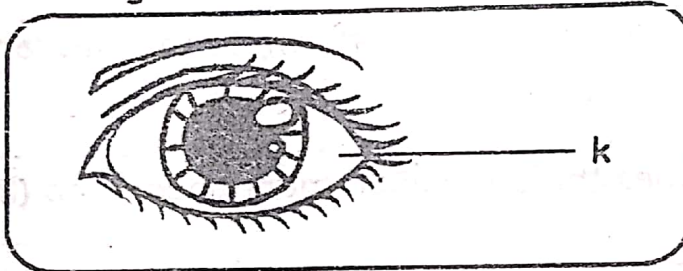
17. State any **one** example of a plant fibre.

Maize

18. Give the set of teeth found in children below 6 years.

Milk set of teeth.

Use the diagram below and answer the questions 19 and 20.



19. Name the organ of the body shown in the diagram above.

The eye.

20. Write any **one** way of caring for the organ of the body shown above.

By avoiding too much lig. By avoiding direct light.

21. Name the structure used by a kangaroo to carry its young one.

The front legs.

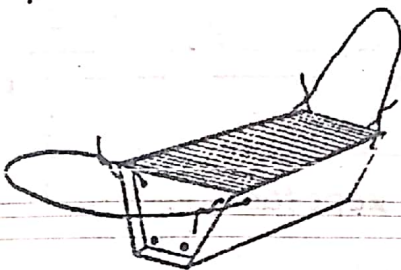
22. Give any **one** way of making water safe for drinking.

By boiling it.

23. Mention the vector that breeds in stagnant water.

Mosquitoes

24. Name the example of a modern bee hive shown below.



Top bar hive.

25. State any **one** property of matter.

Matter occupies space.

26. Give any **one** sign of heat period in goats.

Over ur Over urinating.

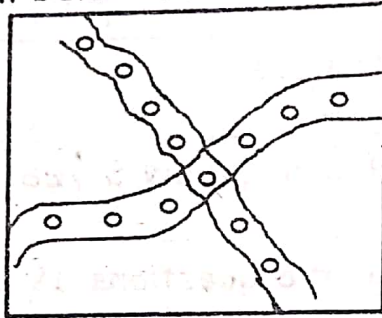
27. State a reason why nails sink in water.

Nails are denser than water.

28. Name the clouds that show a clear sign of rain.

Nimbus clouds.

Use the diagram below and answer the questions 29 and 30.



29. Identify the amphibians which lay the eggs shown in the diagram above.

Frog

30. What type of fertilization does the amphibian mentioned in no (29) above undergo?

External fertilization.

31. State any **one** way of keeping our homes free from germs.

Proper disposal of human waste.

32. Give **one** characteristic common to all invertebrates.

They do not have a backbone.

33. Name any **one** example of an accident that can happen at school.

Falls.

34. State any **one** way in which animals can move from one place to another.

By walking.

35. Mention any **one** disorder of the digestive system.

Vomiting.

36. Which part of air supports germination?

Oxygen.

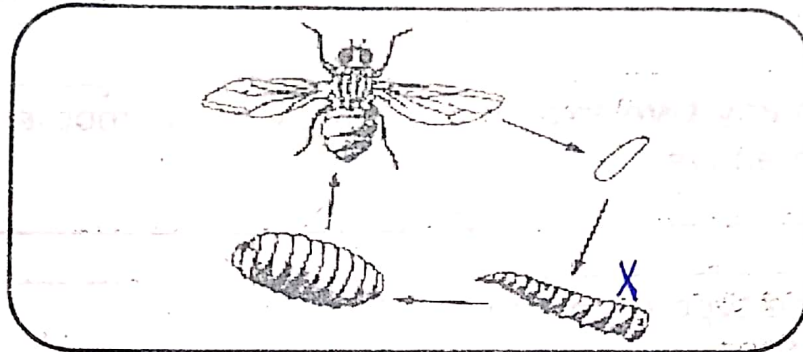
37. Name any **one** exotic breed of a sheep mainly kept for wool production.

Merino sheep.

38. How does heat travel through solid state of matter?

Through Convection.

The diagram below shows a life cycle of a housefly. Use it to answer questions 39 and 40.



39. Use letter X to indicate the larva stage on the diagram above.
 40. What type of life cycle of an insect is shown in the diagram above?

Complete life cycle.

SECTION B (60 Marks)

(Questions 41-55, carry four marks)

- 41(a) Name the **two** liquids used in a thermometer.

(i) Mercury

(ii) Alcohol

- (b) State the type of thermometer used for measuring temperature of a place.

Wall thermometer.

- (c) Mention the units used for measuring temperature.

Degrees celcius.

- 42 (a) Why can't plants make their own food at night?

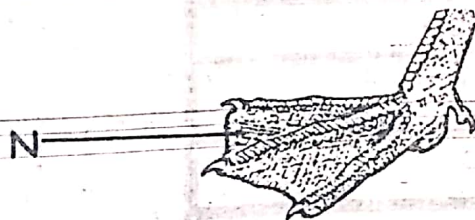
~~There is no~~ There is no chrolophyll ruply

- (b) Give **one** importance of photosynthesis to the following:

(i) Plants It helps them to make their own food.

(ii) Animals It helps them take out carbon dioxide.

43. The diagram below is of a foot of a certain group of birds. Use it to answer the questions that follow.



- (a) Name the part marked N.

Webs

(b) Identify the group of birds whose foot is shown in the diagram above.

Swimming birds.

(c) Mention any **two** examples of birds whose foot is shown in the diagram above.

(i) Ducks

(ii) Goose

44 (a) Name the type of teeth used for:

(i) grinding food ~~Molar~~ ~~Molar th~~ Molar teeth

(ii) tearing food Canine teeth

(b) Which part of the tooth enables a person to feel pain?

Pulp cavity.

(c) Give **one** danger of opening bottles of soda using our teeth.

It cause bad shape to teeth.

45 (a) Give any **two** factors favourable for bacteria to breed.

(i) Warmth

(ii) Moisture.

(b) How do bacteria reproduce?

Bacteria reproduce by binary fission.

(c) Mention any **one** immunisable disease caused by bacteria.

Mearles.

46. State any **two** examples of the following crops:

i) Annual crops:

(i) Beans

(ii) Ground nuts.

ii) Perennial crops:

i) Coffee

ii) Tea

47. Match animals to their weapons used for protection.

Animal	Weapon
Goats	Prickly hair
Wasps	Horns
Caterpillar	Spur
Cock	Stinger

- (i) Goats Horns
- (ii) Wasps Stinger
- (iii) Caterpillar Prickly hair
- (iv) Cock Spur
- 48 (a) Give any **two** reasons why farmers rear rabbits.
- (i) For meat production.
- (ii) For skin.
- (b) What is the gestation period of a doe?
- Eight months.
- (c) Name any **one** disease that attacks rabbits.
- Pneumonia.
49. (a) Mention any **two** sources of proteins.
- (i) Fish.
- (ii) Meat
- (b) Which deficiency disease is caused due to lack of enough Vitamin A in one's diet?
- River blindness.
- (c) State the best way of controlling deficiency diseases in children.
- By feeding them on a balanced diet.
- 50 (a) Name any **two** examples of stem tubers.
- (i) Sugarcane.
- (ii) Irish potatoes
- (b) How are carrots propagated?
- By means of seeds.
- (c) Identify the part of a cassava plant used for storing its own food.
- Roots.
- 51 (a) Name any **two** methods of administering vaccines.
- (i) Through the mouth
- (ii) Through injection.
- (b) When is measles vaccines administered to babies?
- After 9 months.
- (c) Give **one** way in which a person can get artificial immunity.
- Through immunisation.
- 52 (a) Write any **two** materials used to clean our bodies.
- (i) Clean water
- (ii) Soap

(b) Give any **two** importance of observing good personal hygiene.

(i) It prevents a bad smell.

(ii) It prevents skin diseases.

53 (a) Name any **two** ways in which soil is formed.

(i) Rock weathering.

(ii) Decomposition.

(b) Apart from earth worms, mention any **two** other examples of living organisms which live in soil.

(i) Snakes

(ii) Rats.

54 (a) Write any **two** characteristics of local breeds of chicken.

(i) They take long to grow and mature.

(ii) They produce small eggs.

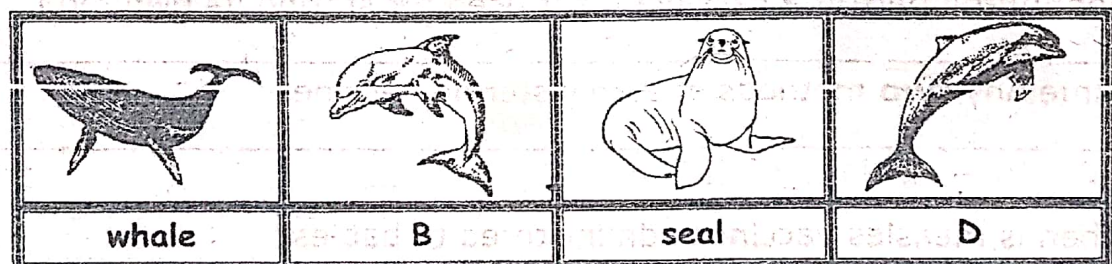
(b) Give **one** way in which a farmer can improve the quality of his/her local breeds of chicken.

By crossbreeding.

(c) Name the product got from chicken used as manure.

Wastes.

55: Below are structures of sea mammals. Study and use them to answer the questions below.



(a) Name the sea mammals B and D.

(i) B Dolphin

(ii) D Tilapia

(b) Write any **one** characteristic of sea mammals.

They are slippery skinned. They live in water.

(c) What is the importance of a thin layer of blubber to a whale?

To pour out water.