



THE MILESTONE EXAMINATIONS 2024

P.7 PRE MOCK (Item 2 of 3)

INTEGRATED SCIENCE GUIDE

Time allowed: 2 hour 15 minutes

Index No.

EMIS No.						Personal No.		

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APPROVED

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully;

1. This paper has two sections: **A** and **B**
2. Section **A** has **40** questions (**40 marks**)
3. Section **B** has **15** 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.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated "**For Examiners' use only**" and the boxes inside the question paper.

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FOR EXAMINERS' 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		

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SECTION A: 40 MARKS

Questions **1** to **40** carry one mark each.

1. Name the breathing organs of a crab.

Gills

2. Mention any **one** food material obtained from living animals.

Milk// Eggs// Wool

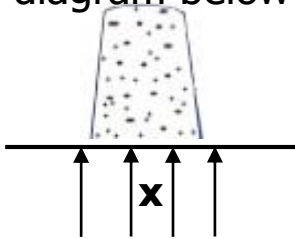
3. Why is firewood said to be a fuel?

Firewood is burnt to produce heat and light.

4. How is the left ventricle adapted to its function?

Has thicker muscles.

Use the diagram below to answer questions **5** and **6**.



5. Name the property of air shown.

Air exerts pressure.

6. What do the arrows **X** represent?

Atmospheric pressure

7. Name the type of joint found between the atlas and the axis of the vertebra column.

Pivot joint

8. Why do you think pregnant women should go for antenatal care?

To monitor growth of the fetus// For blood checkup.

9. Which immunisable disease is usually confused to be **HIV/AIDS**?

Tuberculosis

10. Why would you group a dog under carnivorous animals?

Feeds on flesh// Has well developed canine teeth.

11. How does prolonged breast feeding promote child spacing in a family?

Delays ovulation

12. Name the commercial system of keeping poultry.

Deep litter system

13. State the function of the ovipositor on an insect.

To lay eggs

14. Which type of soil has the highest drainage than others?

Sand soil

15. Give **one** clear reason to support your answer in **14** above.

Has large particles// Has large air spaces

16. Why should resources be used sparingly?

For future use// To prevent extinction

17. How is a maize plant propagated?

Using seeds

18. Write **STD's** in full.

Sexually Transmitted Diseases

19. Name the most poisonous type of alcohol.

Methanol

20. How is iron smelting useful to the blacksmith?

Softens metals for easy shaping.

21. What causes addiction to tobacco smoking?

Nicotine

22. Give a reason for keeping our fingernails short.

To reduce hiding places for germs.

23. How useful is a rack at home?

For keeping utensils after washing.

24. Name the type of mechanical energy possessed by passengers in a taxi.

Potential energy

25. Why are arteries made of thick walls?

To withstand the high pressure of blood.

26. What shows that a pregnant cow is about to produce the calf?

Isolation, Restlessness, Loss of appetite. Mucus from the vulva

27. State the best way of dodging **HIV/AIDS**.

Abstaining from sex

28. Give a reason why harvesting of honey is done in the evening.

Most bees are found in the hive.

29. Why do shepherds dock their sheep?

For easy mating// To improve on their hygiene.

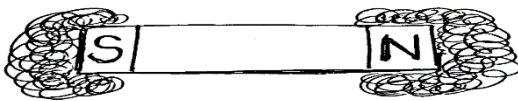
30. Mention **one** example of solid fossil fuel.

Coal

31. Why should humans bathe regularly?

To avoid skin diseases// To avoid bad smell

32. Name the property of magnetism shown below?



Magnetism is stronger at the ends of a magnet.

33. Mention **one** best way of keeping magnet.

Using iron keepers// Keeping magnets with unlike poles together.

34. How are valves in the heart similar to the Kink on a clinical thermometer?

Both prevent the back flow of liquids.

35. Mention **one** example of perennial crop.

Mango plants// Pawpaw// coffee etc

36. Why should clay material be baked before use?

To harden them

37. How does smoking preserve fish?

Heat dehydrates fish

38. Which reason do poultry farmers give for hanging green vegetables in poultry houses?

For birds to exercise// To kill boredom

39. Mention **one** way of reducing echoes.

Using soft boards// Using thick carpets// Using thick curtains.

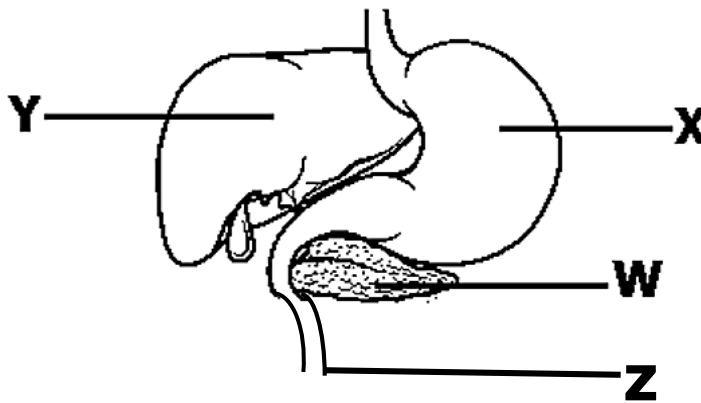
40. Give **one** value of regular physical exercise to the body.

Keep the body healthy// Maintain the body systems in a proper working environment// Strengthen muscles

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41. Below is a part of the digestive system. Use it to answer questions that follow.



a) Name the part labeled

W-Pancreas

Y-Liver

b) Which digestive juice is produced in part **x**?

Gastric juice

c) Name the food substance digested in part **z**.

Fats and oils// lipids

42.

a) Define the term family planning.

The use of birth control methods to control the number of children in a family.

b) Give **two** natural family planning methods.

Abstinence// Safe days// prolonged breast feeding etc.

c) How does prolonged breastfeeding promote child spacing?

Delays ovulation

43.

a) Give **two** reasons for steaming up pregnant animals.

To ensure good growth of the fetus// To build the animal's body// To prevent low birth weight

b) Why milking parlours should be kept clean and dry?

To keep milk free from germs.

c) Mention **one** example of milk product.

Yoghurt// cream// cheese// ghee etc.

44.

a) How useful is sunlight during photosynthesis?

Splits water into hydrogen and oxygen.

b) Name **two** other requirements for photosynthesis.

Water, carbon dioxide, chlorophyll

c) How useful is photosynthesis to animals?

Source of food, and oxygen

45.

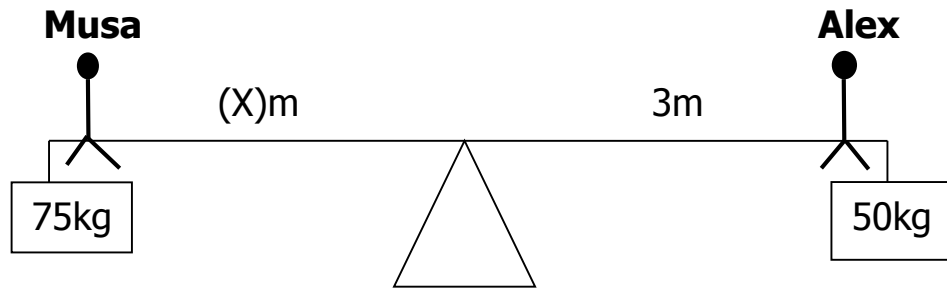
a) What is a lever?

A stiff rod that turns freely on a fixed pivot.

b) Give **one** factor considered before naming the class of a lever.

Arrangement of its parts

c) How far can Musa sit from the pivot to balance the see- saw below?



$$X = (3 \times 50) \div 75$$

$$X = 150 \div 75$$

$$X = 2 \text{ meters}$$

Musa should sit 2 metres from the pivot.

46.

a) Mention **two** examples of sea mammals.

Dolphins// Seals// Sharks// Whales

b) How useful are blubber layers to sea mammals?

Prevent heat loss Or keeps them warm in water.

c) Name **one** example of an egg-laying mammal.

Spiny anteater// Duck billed platypus.

47. Ritah's birds have yellowish diarrhoea and dullness.

a) What disease are they suffering from?

Coccidiosis

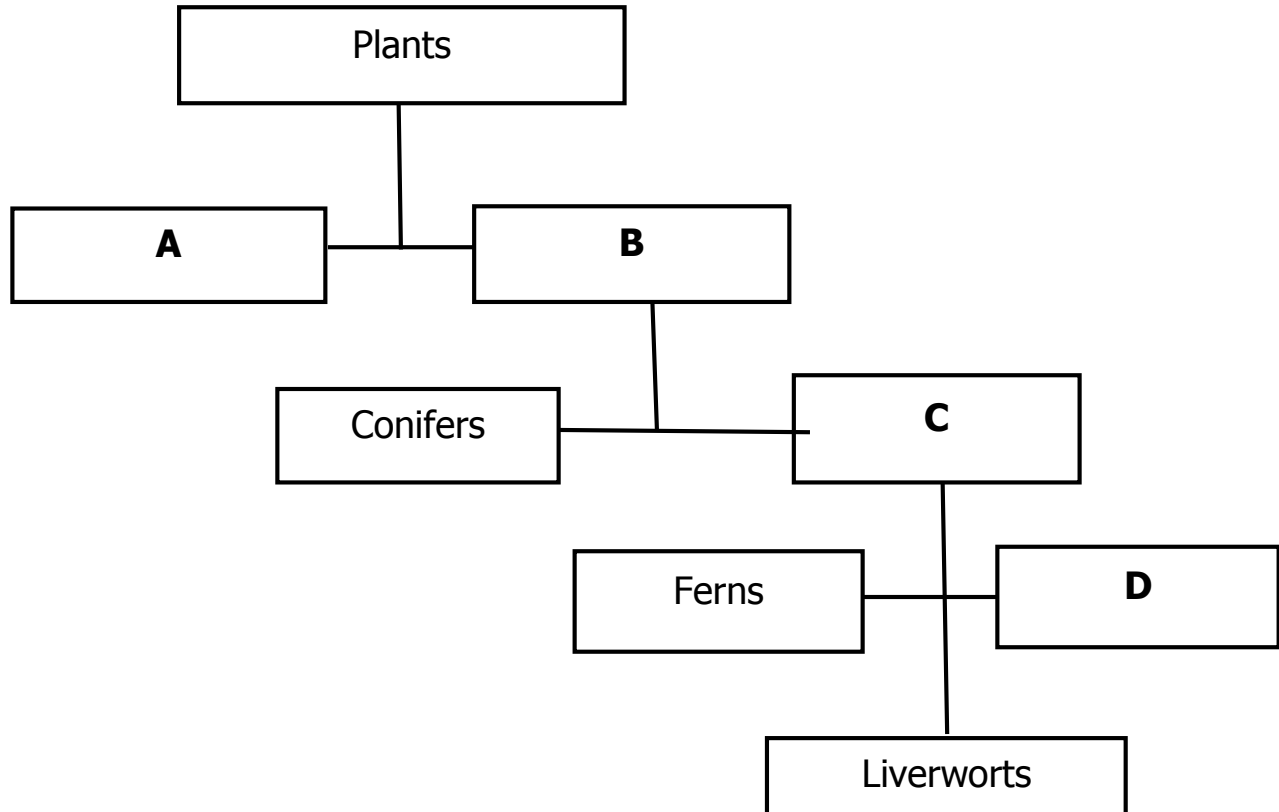
b) Give **two** ways of preventing poultry diseases.

Proper feeding// Cleaning their houses// Culling// Early vaccination.

c) How useful are perches in a poultry house?

Keep birds busy// Kill boredom// For birds to exercise.

48. Study and use the **classification chart** below to answer questions that follow.



a) Name the parts labelled.

A- Flowering plants

B- Non flowering plants

b) How is group **C** similar to mushrooms?

Reproduce by means of spores.

c) Mention **one** example of a conifer.

Pine// Podocarp// Cypress

49.

a) Which vector spreads plasmodia germs?

Female anopheles mosquito

b) Give **two** ways of controlling the above vectors at the larva stage.

Draining stagnant water// Rearing fish

c) How useful are spiracles to an insect?

For breathing.

50. A **VIP** latrine has a screen and a vent pipe.

a) Write **VIP** in full.

Ventilated Improved Pit latrine

b) How useful is a screen and a vent pipe on a **VIP** latrine?

A screen traps flies to death

A vent pipe lets out bad smell.

c) Give **one** way of cleaning a **VIP** latrine.

Scrubbing the floor// Sweeping// Smoking// Removing cob webs

51.

a) Apart from bees, give **two** other agents of pollination.

Wind// Moths// Flowing water// Rain

b) Give **two** advantages of seed dispersal.

Prevents plant extinction// Prevents plant congestion// Plants colonize new areas.

52.

a) Mention any **two** alcohol-related problems.

Accidents// Domestic violence// Loss of respect// Imprisonment// High crime rate// Poverty

b) As a P7 candidate, what advice can you give your friend who takes alcohol?

Teaching him the dangers of alcoholism.

c) Name **one** non-infectious disease of the lungs.

Lung cancer// Emphysema

53.

a) What are chemical changes?

Chemical changes are changes where new permanent substances are formed.

b) Give **two** chemical changes that occur in plants.

Photosynthesis// Respiration

c) Mention **one** characteristic of chemical changes.

They are irreversible// They form new permanent substances.

54.

a) Why is distilled water not safe for human health?

Lacks mineral salts.

b) Give **one** use of distilled water to health workers.

For mixing drugs

c) How can filtered water be made safe for drinking?

By boiling.

d) What scientific name is given to the water obtained by distillation method?

Distillate

55.

a) To which group of vertebrates do snakes belong?

Reptiles

b) Give **two** examples of poisonous snakes.

Black mamba// Green mamba// Night adder// Puff adder// Gabon viper

c) Why do snakes moult?

To increase in size.

END

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