

KOLFRAM EDUCATIONAL SERVICES KAMPALA

SET III- PRE MOCK EXAMINATION

2023

PRIMARY SEVEN

INTEGRATED SCIENCE



Time allowed: 2 hours 15 minutes

Index number

Random Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Random Number: _____

District ID Number: _____

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

Read and follow these 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 **8** printed pages.
3. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
4. All answers must be written using a **blue** or **black** ball point pen or ink. Any work done in pencil other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room. 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 boxes inside the question paper.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54- 55		
TOTAL		

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Turn over

SECTION A

1. How is a housefly able to spread disease causing organisms?

2. Give **one** example of monotremes.

3. How does fish take in oxygen?

4. Why is transplanting done in the evening?

5. Mention **one** device used to reproduce sound.

6. How does a pawpaw plant avoid self pollination?

7. State the main reason why farmers mulch their gardens.

8. How are red blood cells adapted to their function?

9. Under what group of invertebrates are centipedes?

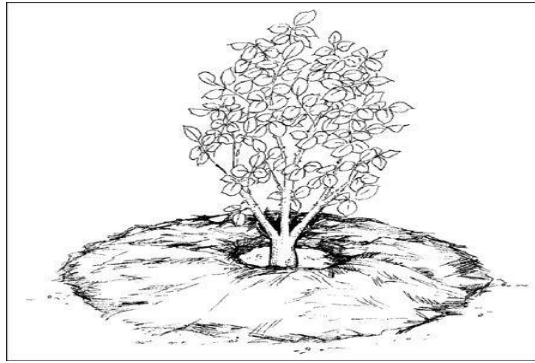
10. Define the term 'sublimation'.

11. In the space below, draw a hoof of any odd toed ungulate.

12. Mention the product of Merino sheep that is used in textile industry.

13. How does heat from a fireplace reach the person seated near it?

14. Name the farming activity demonstrated below.



15. Why is the habit of smoking dangerous to human health?

16. In which **one** way is a tadpole similar to fish in terms of respiration?

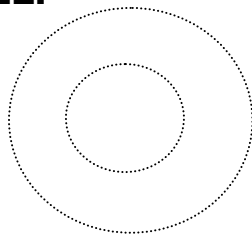
17. How do fungi feed?

18. State the importance of echoes to a pilot.

19. Why do farmers harvest ready crops during the dry season?

20. State the role of hydrochloric acid found in the stomach during digestion.

The diagram below shows a component of blood. Use it to answer question 21 and 22.



21. Name the blood cell shown in the diagram above.

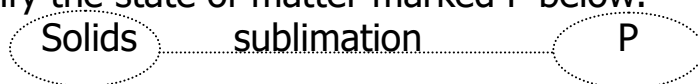
22. How useful is the above cell in the human body?

23. Of what importance are wetlands in our environment?

24. Why do some hens lay eggs with soft egg shells?

25. Why is burning of charcoal to ash regarded a chemical change?

26. Identify the state of matter marked P below.



27. Write down **one** advantage of local breeds over exotic breeds of goats.

28. Why is a housefly referred to as an arthropod?

29. Name the poisonous substance found in tobacco that stains the teeth.

30. Mention the substance formed when haemoglobin combines with oxygen.

31. What is the body temperature of a normal person in Fahrenheit scale?

32. Why is a person with blood group O referred to as a universal donor?

33. How are Irish potatoes propagated?

34. Name the vector that spreads germs which cause bilharzia.

35. Which vitamin is contained in coffee husks?

36. What is the end product of proteins?

37. Change 10°C to $^{\circ}\text{F}$.

38. Suggest **one** way plants depend on animals.

39. Why are telephone and electric wires loosely fixed between poles?

40. What are legumes?

SECTION B

41. Use the lists below to answer questions that follow.

P	Q	W
chameleon tortoise	baboon goat	newt toad

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

(b) How are animals in **Q** different from those in **W** in terms of reproduction?

(c) State any **two** similarities between animals in **P** and those in **W**.

(i)

(ii)

42. Match the germs with the diseases they cause.

Disease

Cholera

Trachoma

River blindness

Filariasis

Germ

onchocerca vulvulus

filaria worms

vibrio

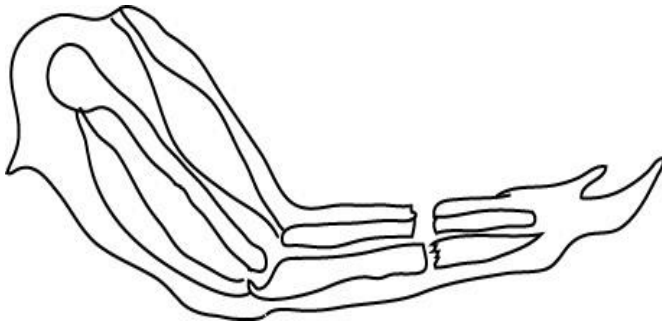
Chlamydia

salmonella

(a) Cholera

(b) Trachoma

- (c) River blindness
- (d) Filariasis
- 43. The diagram below shows a fracture. Use it to answer questions below**



(a) What is a fracture?

(b) Name the type of fracture shown in the diagram.

(c) What first aid can you give to a person with such a fracture?

(d) What type of skeleton does an insect like a bee have?

44 a) What is incubation as used in poultry keeping?

(b) Mention the incubation period of a hen.

(c) Give **one** advantage of using artificial incubation over natural incubation.

(d) Give **one** reason why an egg may fail to hatch.

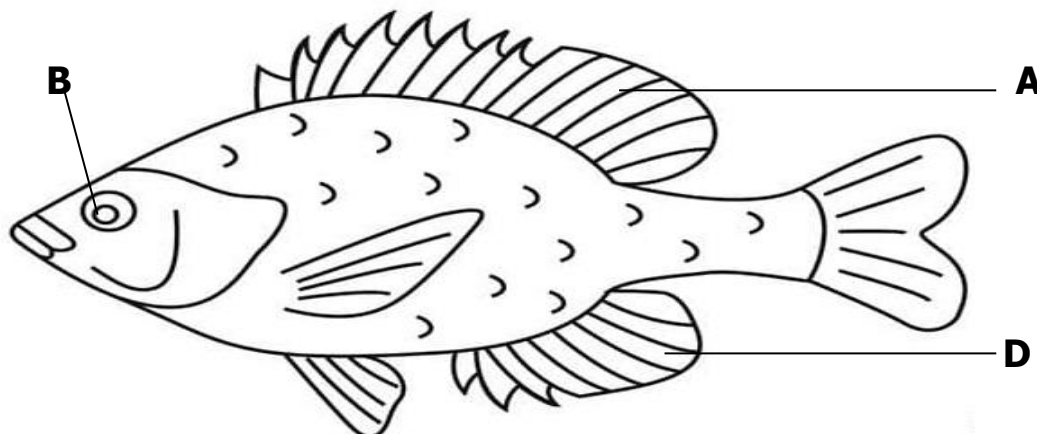
45(a) What are antibodies?

(b) Mention **two** ways through which the human body acquires immunity.

(i) _____

(ii) _____

46. Use the diagram of a fish below to answer the questions that follow.



(a) Name the parts marked with letters **A** and **D**.

(i) **A** _____

(ii) **D** _____

(b) What is the importance of part **B** to a fish?

(c) State **one** reason why the shape of a fish enables it to move fast in water.

47 a) Give **one** example of exotic breeds of rabbits.

(b) Suggest **two** characteristics of local breeds of rabbits.

(i) _____

(ii) _____

(c) Why should a house of rabbits be built one metre above the ground?

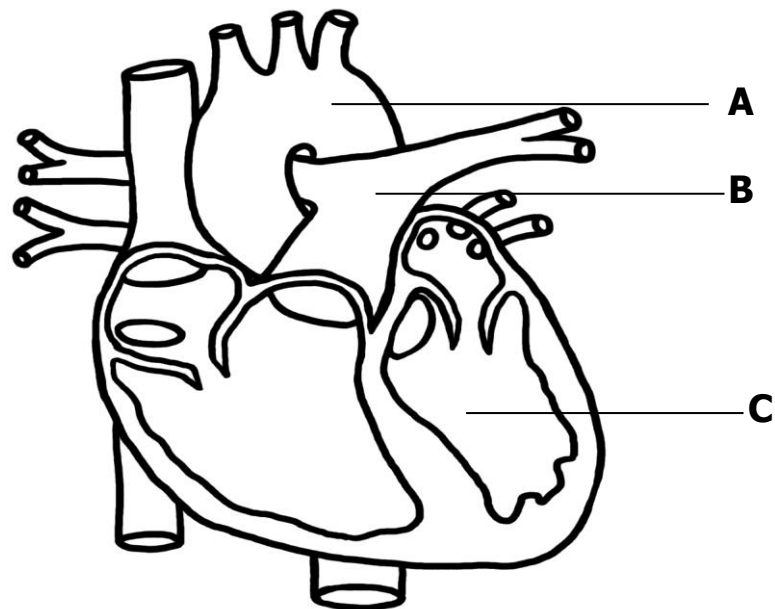
48(a) Name any other **one** form of energy apart from sound and heat.

(b) How is sound energy similar to light energy?

(c) What is the name given to repeated sound?

(d) How is such repeated sound reduced in halls?

49. Below is the structure of a human heart. Use it to answer questions about it.



- (a) Name the skeletal structure which protects the organ above.
- (i) **A** _____
- (ii) **C** _____
- (b) How is blood carried by **A** different from that of **B**?

- (c) State the function of valves found in the heart.

50. The diagram below shows a mammal. Study it carefully and answer questions that follow.



- (a) Name the group of mammal to which the animal above belong.

(b) State **one** reason why the animal above is called a primitive animal.

(c) Give **two** other characteristics of pouched animals.

(i) _____

(ii) _____

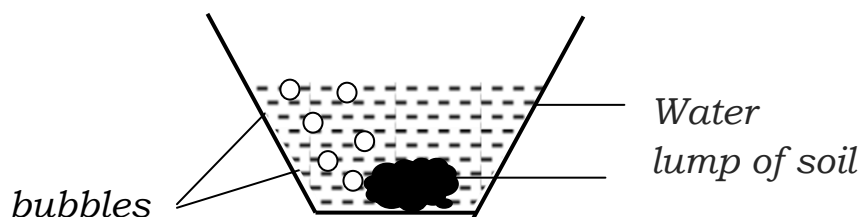
51 (a) What is pollination?

(b) State any **one** characteristic of insect pollinated flowers.

(c) What do we call the reproductive part of a plant?

(d) State what happens to pollen grains when they land on the stigma.

52. Below is an experiment carried out by a P.5 class. Use it to answer questions that follow.



a) What does the above experiment show about soil?

b) Apart from air, mention any **two** components of soil.

(i) _____

(ii) _____

c) How is air important to the living organisms in the soil.

53(a) What are essential drugs?

(b) Mention **two** examples of essential drugs.

(i) _____

(ii) _____

54. Give **two** examples of each of the following groups of natural resources.

(a) Non-living things

(i) _____

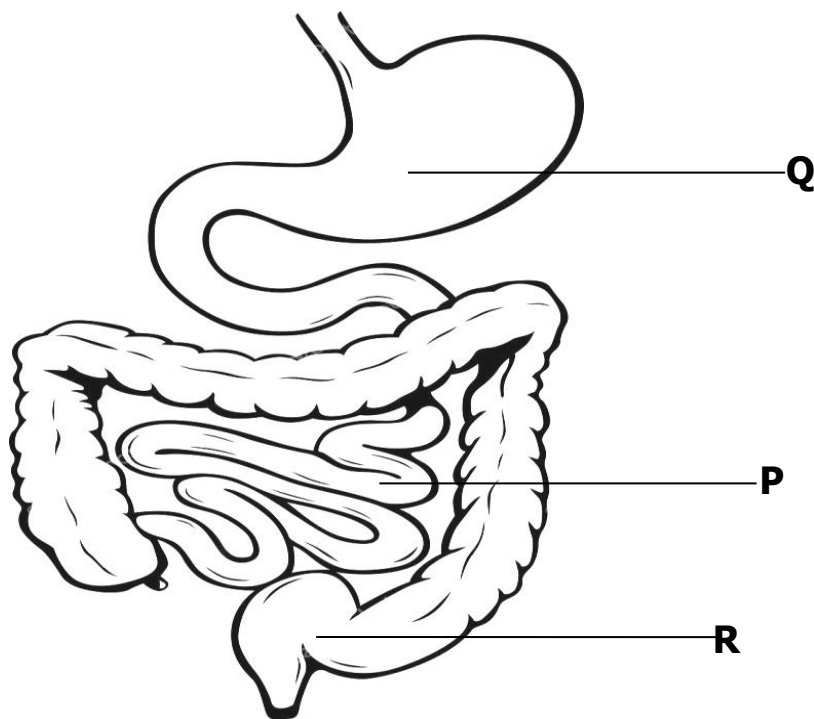
(ii) _____

(b) Living things

(i) _____

(ii) _____

55. The diagram below shows part of the human digestive system. study it carefully and answer the questions that follow.



(a) Name the parts marked **P** and **Q**.

(i) **P** _____

(ii) **Q** _____

(b) State the function of parts **Q** and **R**.

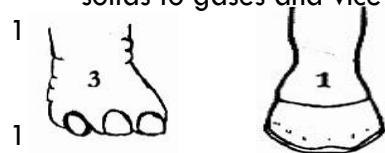
(i) **Q** _____

(ii) **R** _____

Good Luck

Pre mock Science Marking Guide set III 2023

1. A housefly has a hairy body.
2. Duck billed platypus/Spiny ant eater/echidna
3. By diffusion
4. To prevent transpiration
5. DVD player, Radio cassette, telephone, iPhone, computer, etc
6. By having male part and female part mature at different times/By having male part and female part mature at different plants
7. To conserve soil moisture
8. They are many in number/They are flat shaped/they contain hemoglobin
9. Myriapods
10. This is the change of state directly from solids to gases and vice-versa



13. By radiation
14. Mulching
15. Smoking leads to lung cancer, emphysema, lips and throat ulcers
16. Both use gills to breath
17. Saprophytically (feeding on dead decaying matter)
18. Detecting thick clouds ahead of him/detecting tall mountains ahead of him (Detecting obstacles ahead of him)
19. There is enough sunlight to dry their crops
20. To kill germs that come along with food
21. Red blood cell
22. Transporting oxygen
23. They help in the formation of rainfall
24. They lack calcium in their diet
25. A new substance is formed/It is irreversible
26. Gases
27. Resistant to diseases/Withstand harsh weather conditions
28. It has segmented bodies and jointed legs
29. Tar
30. Oxyhemoglobin
31. 98.6%
32. He/she gives out blood from his body to all other blood groups without forming clumps
33. By stem tubers

34. Water snail

35. Vitamin B1

36. Amino acids

$$\left(10 \times \frac{9}{5}\right) + 32$$

37.

$$18 + 32 = 50^{\circ}\text{F}$$

38. Plants get CO₂ from animals to make their own food/Plants gain manure from animals droppings

39. To prevent breakages during cold days/To allow contraction on cold days

40. Plants which have root nodules

41. –

(a) Amphibians

(b) Animals in Q produce young ones whereas animals in W lay eggs.

(c) They are all vertebrates/They are cold blooded animals.

42. –

(a) Cholera – Vibrio

(b) Trachoma – chlamydia Filaria worms

(c) River blindness – onchocerca vulvulus

(d) Filariasis – Filaria worms

43. –

(a) A broken or fractured bone

(b) Compound fracture

(c) Applying splints

(d) Exo skeleton

44. –

(a) Incubation is the process by which an egg is given necessary conditions to hatch into a chick.

(b) 21 days

(c) Artificial incubation can hatch more eggs at the same time/Artificial incubation can be used for commercial purposes

(d) Due to too small eggs/Due to cracked egg shell

45. –

(a) Antibodies are chemicals produced by the white blood cells to defend the body against disease germs.

(b) From mother to child through breast feeding/At birth/After recovering from an illness

46. –

(a) Dorsal fins

(b) Caudal fin/ventral/anal fin

PRE MOCK SET III INTEGRATED SCIENCE EXAMINATION 2023

- (c) For seeing in water
 (d) The shape of fish is streamlined making it easy to move in water with less resistance (viscosity)
47. –
 (a) California/New Zealand
 white/chinchilla/earlopes
 (b) They are multicolored/They can survive in harsh environments i.e. weather /They mature slowly/They are resistant to diseases and parasites
 (c) To prevent rabbits from crawling pests/To avoid damp conditions in the hutch
48. –
 (a) Light/electricity/magnetism/solar
 (b) They both travel in form of waves/They are both reflected(absorbed)/They are both forms of energy
 (c) An echo
 (d) By covering the walls with soft porous boards
49. –
 (a) (i) A Pulmonary artery C – Ven cava
 (b) Blood in A is de-oxygenated whereas blood in B is oxygenated.
 (c) To prevent the back flow of blood
50. –
 (a) marsupials
 (b) it reproduce by means of giving birth to young ones alive
 (c) they carry their young ones in pouch, have strong hind legs for jumping, gives birth to young ones
51. –
 (a) The transfer of pollen grains from anthers to the stigma of a flower
 (b) Good scent/brightly coloured petals
 (c) Flower
 (d) Pollen tubes develop where pollen grains pass to the ovary
52. –
 (a) Soil contains air
 (b) Water, living organisms, humas, organic matters
 (c) For respiration/ breathing
53. –
 (a) Drugs used to cure common diseases of people in society
 (b) Panadol/Chloroquine/Quinine/Aspirin
 (c) Easy access/Prescribed by qualified persons
54. –
 (a) Soil/sun/water/minerals/fuel – oils/air
 (b) Plants/animals
55. –
 (a) P – small intestines
 Q – stomach
 (b) P – to produce bile juice
 R helps in absorption of water