

# KISORO DISTRICT ACADEMIC BOARD

## PRIMARY LEAVING MOCK EXAMINATION, 2023

### INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.	Personal No.

Candidate's Name: .....

Candidate's Signature: .....

District ID No: 

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Read the following instructions carefully:

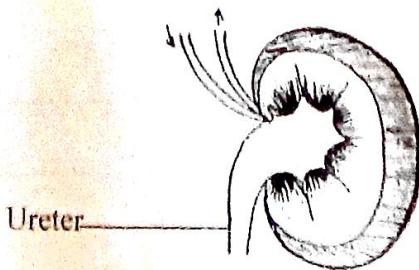
1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections, A and B. Section A has 40 questions and Section B has 15 questions. The paper has 8 printed pages altogether.
3. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
4. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
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 boxes inside the question paper.

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		
<b>TOTAL</b>		

SECTION A - 40 MARKS  
Questions 1 to 40 carry one mark each.

1. Why should we keep our clothes clean?  
.....
2. State the standard unit for measuring capacity.  
.....
3. Name the body part human beings use for tasting.  
.....
4. What causes AIDS among human beings?  
.....
5. Why is a forked hoe recommended for harvesting tuber crops?  
.....
6. How do caterpillars protect themselves against enemies?  
.....
7. Why is sugar an important component of Oral Rehydration Solution (ORS)?  
.....
8. An irregular object of 120g displaces 20cc of water when lowered in a measuring cylinder. Find its density.  
.....

The diagram below shows a human body organ. Study and use it to answer questions 9 and 10.



9. Name the major organ of the human body drawn above.  
.....
10. Give one way of caring for the organ above.  
.....
11. How is water an important component in the environment?  
.....
12. What is the danger of leaving broken furniture in the classroom?  
.....

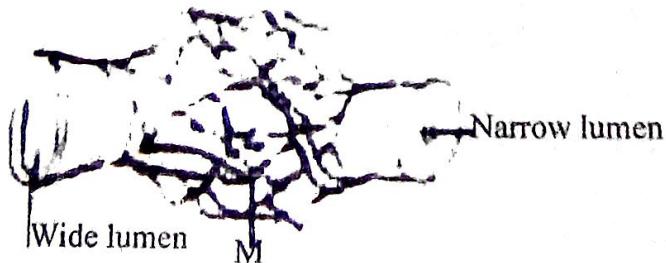
13. Why do rabbit farmers isolate sick rabbits on their farms?  
.....
14. Which deficiency disease results from lack of enough vitamin B<sub>1</sub> in the human diet?  
.....
15. Which habit promotes oral hygiene?  
.....
16. How do volcanic eruptions affect the environment?  
.....
17. State the energy change which takes place when a moving bus comes to rest.  
.....
18. What is the source of energy used by a lantern lamp to produce light?  
.....
19. Why do we wash hands after visiting a latrine /toilet?  
.....
20. What makes loam soil suitable for plant growth?  
.....

21. State the term which describes the lowness or highness of sound.

22. Which type of chickens is kept for egg production?

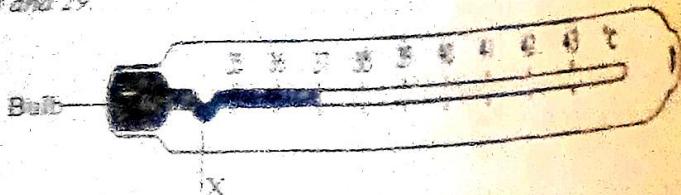
23. Name the vaccine which is administered through the mouth.

The diagram below shows blood vessels in the human body. *Study and use it to answer question 24.*



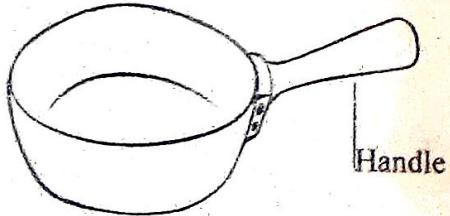
24. Name the blood vessels marked M on the diagram above.  
.....
25. How do human beings use soil as a resource?  
.....
26. Give one insect which uses soil as its habitat.  
.....
27. Write down one way of caring for the sick.  
.....

The diagram below is of a thermometer. Study and use it to answer questions 28 and 29.



28. Name the instrument shown in the diagram above.
29. State the function of the part marked X in the working of the instrument shown above.
30. How can one working in a wet place prevent athlete's foot?  
.....
31. State one effect of smoking to the family.  
.....
32. Why should harvested cassava be properly dried before storage?  
.....
33. What happens to the ribcage during inhalation?  
.....
34. Name the form of addiction which results from prolonged and excessive use of Alcohol.  
.....

The diagram below shows a frying pan. Study and use it to answer questions 35 and 36.



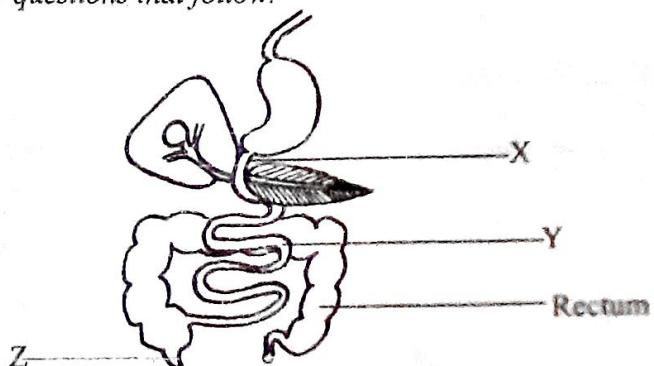
35. Name the substance used to make the handle of the above frying pan.  
.....
36. Why is the handle of the above frying pan made of the substance named in (35)?  
.....
37. How are clouds formed in the atmosphere?  
.....
38. Name the female sterile bee in the hive.  
.....
39. What is the Function of the ovaries in the human reproductive system?  
.....
40. How long is the gestation period of a ewe?  
.....

## SECTION B: 60 MARKS

(Questions 41 to 55 carry four marks each.)

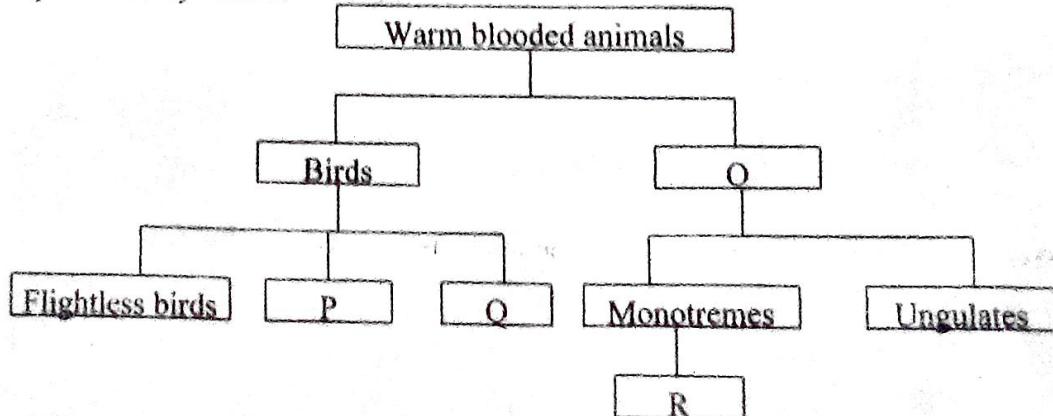
41. (a) How does a dynamo produce electricity?  
.....  
(b) Which other device produces electricity in the same way as the dynamo?  
.....  
(c) Give two devices which use a motor to work.  
(i) .....  
(ii) .....

The diagram below shows part of the human alimentary canal. Study and use it to answer questions that follow.



42. (a) Name the parts marked;  
(i) X .....  
(ii) Z .....  
(b) Which substance is absorbed in part marked Y?  
.....  
(c) What is the role of the rectum in the human alimentary canal?  
.....
43. (a) What is fainting?  
.....  
(b) How does standing in the sunshine for a long time cause fainting?  
.....  
(c) Write down two ways you can help to save the life of a fainted casualty.  
(i) .....  
(ii) .....

The illustration below shows groups of warm blooded animals. Fill in the information represented by letters.



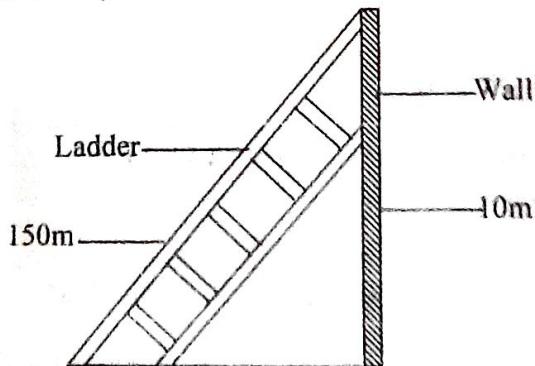
44. (i) O .....  
(ii) P .....  
(iii) Q .....  
(iv) R .....

45. Match the vectors in A with their respective diseases in B correctly.

	Vector(s) (A)	Disease(s) (B)
(i)	Cockroaches	Rabies
(ii)	Black flies	Polio
(iii)	Rat fleas	River blindness
(iv)	A Rebid dogs	Bubonic Plague

- (i) Cockroaches .....  
(ii) Black flies .....  
(iii) Rat fleas .....  
(iv) Rebid dogs .....

The diagram below shows ladders leaning against the wall. Study and use it to answer questions that follow.



46. (a) Name the simple machine shown in the diagram above.

(b) Calculate the mechanical advantage of the machine above.

(2 marks)

(c) State the benefit of increasing the slope when using the above machine.

47. The table below shows types of cattle and the main purpose. Fill in the missing information.

Cattle type (s)	Main purpose (s)
(i) .....	Provide labour
(ii) Dairy cattle	.....
(iii) .....	Beef production
(iv) Dual purpose cattle	.....

48. (a) Why are cypress trees referred to as non flowering plants?

.....

(b) How are cypress plants similar to bean plants in the way they reproduce?

.....

(c) Give two examples of spore bearing plants.

(i) .....

(ii) .....

49. (a) Which type of lens is found in the human eye?

.....

(b) Why is the lens in the human eye able to refract light rays differently?

.....

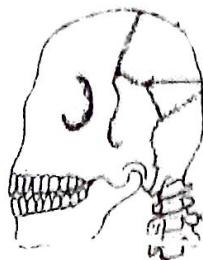
(c) Give the role of the following parts of the human eye:

(i) Pupil.

.....

(ii) Optical nerve

The diagram below shows part of the human skeleton. Study and use it to answer questions that follow.



50. (a) Name the part of the skeleton shown in the diagram above.

.....

(b) What is the major role of the part named in (a) above in the human body?

.....

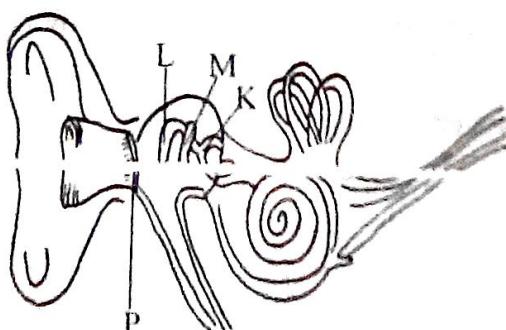
(c) Give two delicate body organs protected by the part named above.

(i) .....

(ii) .....

51. (a) Give two ways of caring for animals.  
(i).....  
(ii).....
- (b) Write down two benefits of keeping animals and growing trees on the same farm.  
(i).....  
(ii).....
52. (a) Why should family members be vaccinated regularly?  
.....
- (b) Which practice helps to control water borne diseases?  
.....
- (c) Write down two other ways of reducing common sicknesses in our homes.  
(i).....  
(ii).....
53. (a) Give two methods used to prepare water for washing clothes.  
(i).....  
(ii).....
- (b) Write down two ways of making hard water soft.  
(i).....  
(ii).....

The diagram below shows a human ear. *Study and use it to answer questions that follow.*



54. (a) Give the collective name for K, L and M.  
.....
- (b) State the function of the part marked P on the diagram above.  
.....
- (c) Give two parts of the human ear which do not take part in the hearing process.  
(i).....  
(ii).....
55. (a) Name the method of making alcohol which involves the use of heat.  
.....
- (b) Why is the delivery tube coiled in cold water during distillation?  
.....
- (c) Give two physical processes involved in the distillation of alcohol.  
(i).....  
(ii).....

**KISORO DISTRICT MOCK SCIENCE MARKING GUIDE, 2023**

1. To avoid germs and bacteria which can cause infection in our bodies.	14. Beriberi.	29. It prevents the backflow of mercury before readings are taken.
2. Litres.	15. Regular brushing of teeth / dental flossing.	30. Wearing gum boots.
3. Tongue.	16. They lead to the displacement of people and animals / destruction of crops in the garden / destruction of transport and communication networks.	31. A careless smoker may lead to fire outbreak in the family /makes the rest of family members passive smokers.
4. Human Immuno deficiency Virus (HIV).	17. Kinetic energy changes to potential energy.	32. To prevent rotting of cassava tubers.
5. Forked hoe does not damage the tubers.	18. Kerosene / paraffin.	33. It moves upwards and outwards.
6. By using their prickly hair.	19. To remove germs from the hands.	34. Alcoholism.
7. Sugar provides energy to the patient.	20. Loam soil contains a lot of humus.	35. Wood /plastic.
8. $D = \frac{M}{V}$	21. Pitch.	36. It prevents the user from being burnt.
	22. Layers.	37. By condensation of water vapour in the atmosphere.
	23. Polio vaccine.	38. Worker bee.
	24. Capillaries.	39. To produce ova /oestrogen hormone.
	25. For making bricks / tiles /pots /charcoal stoves /growing crop.	40. 5 months / 150 days.
	26. White ants /red ants / black ants / termites.	41.(a) By changing kinetic energy into electric energy. (b) Generator.
	27. Taking them for medical care /feeding them on a balanced diet /washing for them clothes /cleaning / their shelters / bathing them /removing them to take the drugs.	(c ) Electric fan /electric sewing machine.
	11. For bathing /washing clothes /watering crops / cooking food /drinking /cooling machines in industries /used by plants to make their own food /favours germination of seeds.	42. (a) (i) X — Duodenum. (ii) Z — Appendix.
	12. It can lead to injuries among pupils.	(b) Digested food.
	13. To prevent spread of diseases to healthy rabbits.	(c ) It stores undigested food before it is passed out.
	28. Clinical thermometer	(b) A farmer gets double income plan

47. (i) Draught cattle.

(b) A farmer gets double income plan

(a) Brief loss of consciousness.

43. (a) Brief loss of consciousness.  
 (b) It leads to short of blood supply carrying oxygen to the brain.  
 (c) Loosen all the tight things around the neck / lay the casualty on the back with legs raised higher than the head / put the casualty in the normal position.
44. (i) O — Mammals.  
 (ii) P — Wading birds / birds of prey.  
 (iii) Q — Swimming birds.  
 (iv) R — Spiny ant eater / dark billed platypus.
45. (i) Cockroaches — Polio.  
 (ii) Black flies — Rider blindness.  
 (iii) Rat Fleas — Bubonic plague.  
 (iv) Rabid dogs — Rabies.
46. (a) Inclined plane / slope.  
 (b)  $M.A = \frac{\text{Effort distance}}{\text{Load distance}}$   
 $M.A = \frac{150\text{m}}{10\text{m}}$   
 $M.A = 15$   
 (c) It reduces effort needed to do work.

47. (i) Draught cattle.  
 (ii) Milk production  
 (iii) Beef production  
 (iv) Dual purpose cattle.
48. (a) They do not produce flowers.  
 (b) Both reproduce by means of seeds.  
 (c) Mosses / ferns / Liverworts.
49. (a) Convex lens.  
 (b) It is muscular and elastic.  
 (c) (i) Pupil — Allows light into the eye  
 (ii) Optic nerve — Transmits nerve impulses to the brain for interpretation.
50. (a) Skull.  
 (b) It protects delicate body organs.  
 (c) Brain / ears / eyes / tongue.
51. (a) Treating sick animals / spraying animals against external parasites / regular deworming / proper housing of animals / proper feeding of animals.

- (b) A farmer gets double income / plant residues are used as animal feed / animal wastes are used as manure for plants.
52. (a) To prevent diseases.  
 (b) Boiling water for drinking.  
 (c) Sleeping under treated mosquito net; / draining stagnant water / regular bathing / feeding on a balanced diet / spraying against vectors.
53. (a) Decantation filtration.  
 (b) Boiling / addition of lime distillation.
54. (a) Ossicles.  
 (b) It converts sound waves into vibrations.
- (c) Semi-circular canals / Eustachian tube.
55. (a) Fermentation.  
 (b) To increase the surface area for the condensation of alcohol vapour.  
 (c) Evaporation and condensation.
- ENL