# SIR APOLLO KAGGWA SCHOOLS SINCE 1996 TEACHERS' COMPETENCE TEST -2023 UPPER SECTION (P.4-P.7)

## INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Teacher's Name:	
Tel. contact(s):	
Class(es) taught:	
Subject combination:	out of any glad markyr yrotokoldby.

#### Read the following instructions carefully:

- 1. The paper has two sections: A and B
- Section A has 40 questions (40 marks)
- 3. Section B has 15 questions (60 marks)
- Answer ALL questions. All answers to both Sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 6. Unnecessary crossing of work may lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill anything in the boxes indicated, For Examiner's use only.

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30	The second	
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 - 52		
53 - 55	N. 123 W. 18	

TURN OVER

# SECTION A: (40 MARKS)

(Questions 1 to 40 carry one mark each)

- 1. Name any one method of making dirty water clean for home use.
- 2. State the type of animal parasites controlled by dipping cattle in acaricides.
- 3. Which body system is responsible for production of gametes?
- 4. State one way water is used as an energy resource.
- 5. How is a moth able to locate a flower at night?
- 6. Mention any one device which changes kinetic energy to electrical energy.
- 7. How does the circulatory system help the body to produce energy?
- 8. Name the digestive disorder caused by dehydration.

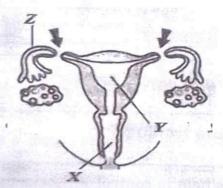
The diagram below shows a mother cooking in a kitchen. Study and use it tanswer questions 9 and 10.



- 9. Which accident can the mother get if her hand touches the steam above?
- 10. Why is the mother holding the saucepan with a piece of cloth in the above diag
- 11. Apart from removing wastes state one other function of the human kidney.
- 12. State the role of valves found in veins.

- 3. Mention any one device used to measure volume of irregular objects.
- 14. Why are beans grouped under legumes?
- 15. Give any one protective function of the human skeleton.
- 16. How useful is stagnant water to a mosquito?
- 17. Give one way in which plant leaves are adapted to photosynthesis.
- 18. State one way single fixed pulleys simplify work.

The diagram below shows a method of family planning. Study it and use it to answer questions 19 and 20.



- 19. Name the method of family planning shown on the diagram above.
- 20. Give any one disadvantage of the above family planning method.
- 21. Name one force that opposes sinking of objects in water.
- 22. How is the reproduction in a whale different from that of a tilapia?
- 23. State the characteristic that enables plants and animals to replace themselves as resources.
- 24. Give any one importance of castration of male animals.

Five any one importance of sweating to human beings.
Name one structure on a farm used as a store for grains.
Give any one method used to make a temporary magnet.
State any one disadvantage of chemical changes in the environment.
State any one sign and symptom of bilharziasis in humans.
The diagram below shows eggs of an amphibian. Study it and use it to answer questions 30 and 31.
questions so und st.
. Which amphibian lays the shown type of eggs?
. How are the eggs shown above fertilized?
2. How is joining of good clubs help to control antisocial behavior among children.
3. Give one way of improving the efficiency of wedges.
4. State any one important process which takes place in human ileum
5. How is sorting of clothes useful to a person cleaning clothes?
6. State the property of a magnet that enables a mother to sort out iron pins from be before cooking.

The diagram below shows part of the body organs. Study and use it to answer questions 37 and 38.



37. Name th	e body	organ	with	the	part	shown	above.
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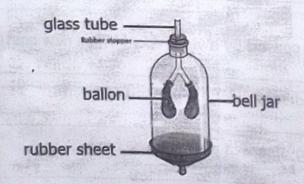
38. State any one material used for cleaning the above org	pove organ	above ord
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- 39. Give any one importance of proper waste disposal in the environment.
- 40. Give any one importance of light in the environment.

### SECTION B: 60 MARKS

(Questions 41 to 55 carry four marks each)

41. The diagram below shows a model of one of the body system. Study and use it answer questions that follow.



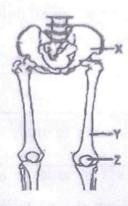
- a) Name the human body system represented above.
- b) What does each of the following materials represent on the body system you have named above.
- i) Glass tube

ii)balloon

c) Why do the balloons expand when the rubber sheet is pulled downward? 42. The table below show blood vessels of the heart and their functions. Fill in the table correctly. Blood vessels Functions Venacava Carries deoxygenated blood from the heart to the lung Pulmonary vein iv) Carries oxygenated blood from the heart to all body parts 43. (a) Give any two examples of a physical change. (b) Give any two examples of a chemical changes that require oxygen to take place. (ii)\_\_\_\_\_ 44. a) Name any one poultry disease caused by a virus apart from new castle disease. b) Give any one sign of new castle disease. c) State any two ways of controlling diseases on a poultry farm. (ii)\_ 45. (a) Give any two pieces of information collected using demography. (ii)

State any one reason why the government collects information on demography.

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

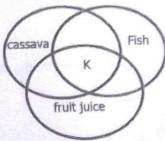


a) Name the bone marked X and Y in the diagram above.	
i. X	
ii. <b>y</b>	
b) Which type of movable joint is located at Z?	
c) How is friction reduced at joint labeled Z in the above diagram?	
47. (a) Apart from mastitis, state any two other bacterial diseases of cattle.  i.	NA.
ii	
ii.	
48. (a) Give any two factors considered by health worker before prescribing a patient.	drug to

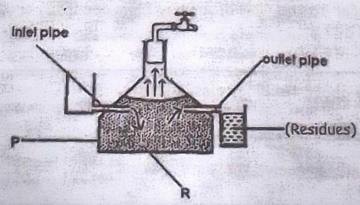
ii.

(-)	oive any one reason	why it is not advisable to buy	drugs from ordinary shops.
49. a)	) Apart from compos	st manure, name any one othe	r examples of natural manure.
b)	) Give the important manure.	ce of each of the material giv	en below when making compost
(i	) Ash		
111	)Water		
()	Name any one metr	nod used by crop farmers to	apply manure.
FO 44			
- CI - B.B.	atch the vaccine in	list X to the nort of the h	advisibana than are administra
		is a to the part of the b	ody where they are administer
	list Y correctly.		lody where they are administer
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	X-Vaccine BCG vaccine Polio vaccine	Y-Immunization site left upper arm right upper arm	loay where they are administer
	X-Vaccine BCG vaccine Polio vaccine DPT vaccine	Y-Immunization site left upper arm right upper arm mouth	loay where they are administer
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52. The diagram below shows food stuffs eaten by people in a certain home. Studand use it to answer the question that follow.



- (a) What type of meal is represented by letter K.
- (b) Why is it advisable for a member of the above family who is a builder to feed on casava?
- (c) Which food stuff from the above diagram should a mother give to her children prevent kwashiorkor?
- (d) Which class of food does fruit juice provide to the family's diet?
- 53. The diagram below shows an equipment used to produce fuel. Study and use answer the questions that follow.



a) Name the fuel produced in the equipment above.

o) Give one example of a material that should be put at R.	CAULD FIRST
Why is equipment marked with letter P kept air tight?	<i>5</i> 1
d) How is substance in residues useful to crop farmers?	
54. The diagram below shows a hand washing facility. Study and use questions that follow.	it to answer the
(a) Name the hand washing facility above.	
(b) Name any two diseases we can control from spreading by using the c	above facility.
in this late and the second of	
(b) Why is the facility above operated using foot?	
55. (a)What term is used to refer to the flow of energy from one living another?	g organism to
(c) How is the sun useful in the above feeding relationship?	
c) State one way primary consumers receive the sun's energy.	
d) Name any one group of mammals that are primary consumers.	out any amount for
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10	