
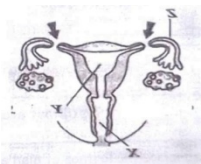



OFFICIAL MARKING GUIDE FOR INTEGRATED SCIENCE

TEACHERS' INTERVIEW 2023 SIR APOLLO KAGGWA SCHOOLS

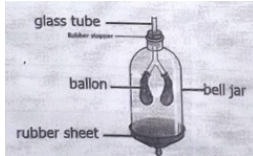
DEVELOPED BY TEACHERS OF TEACH & LEARN SCIENCE PLATFORM
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SECTION A (40 MARKS)			
NO.	QUESTION /ITEM	CORRECT RESPONSE/ANSWER	WRONG ANSWER
1	Name one method of making dirty water clean for home use.	Decantation method// Filtration method	<i>Chlorination</i>
2	Name the type of parasites controlled by dipping cattle in acaricides.	Ecto parasites	<i>Endo parasites</i>
3	Which body system is responsible for production of gametes?	Reproductive system	<i>Urinary system</i>
4	State one way water is used as an energy resource.	Fast flowing water is used in the production of hydro electric power. // Tides from Seas/Oceans help in the generation of tidal electricity. // Steam from hot springs help in the generation of geothermal electricity.	
5	How is a moth able to locate a flower at night?	A moth has a strong sense of smell to detect scent from flowers.	<i>By help of scent from the flower</i>
6	Mention any one device that changes kinetic energy to electrical energy.	Bicycle dynamo // Generator	
7	How does the circulatory system help the body to produce heat?	The circulatory system / Blood helps to transport oxygen and digested food to the body cells for respiration.	
8	Name the digestive disorder caused by dehydration.	Constipation	<i>Diarrhoea</i>
9	 Which accident does a mother get when her hand touches steam during food preparation?	Scald	<i>Burn</i>
10	Why is it advisable for a mother preparing food to handle the saucepan using a piece of cloth?	To prevent the hands from being burnt. /To protect hands against burns.	<i>A piece of cloth is a heat insulator.</i>
11	Apart from removing wastes , state one other function of the human kidney.	Kidneys balance amount of water and salts in the body. // Kidneys filter blood in the body. // Kidneys balance blood pressure. // Kidneys manufacture red blood cells.	
12	State one role of valves found in veins	Prevent backflow of blood during circulation. / Allow blood to flow in one direction during circulation.	
13	Mention any one device used to measure the volume of an irregular object.	Measuring cylinder // Overflow can (Eureka can)//String	<i>Water</i>

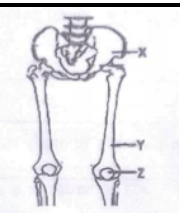
14	Why are beans grouped under legumes?	They have nodules on their roots. // Their seeds are enclosed in pods.	
15	Give any one protective function of the human skeleton.	The skull protects the brain. // The ribcage protects the heart and lungs. // The backbone/spine protects the spinal cord.// The pelvis protects the female reproductive system. (Those responses are specific to which body organ is being protected.	
16	How useful is stagnant water to a mosquito?	Breeding ground for mosquitoes.	
17	Give any one way leaves are adapted for photosynthesis.	Leaves have chlorophyll for absorbs sunlight energy for photosynthesis. // Leaves have a broad shape to increase surface area for absorbing sunlight for photosynthesis. // The mosaic arrangement of leaves increases surface area to absorb sunlight for photosynthesis. // They are thin walled for easy diffusion of gases. //They have many veins for easy transportation of carbon dioxide and water for photosynthesis.	
18	State one way single fixed pulleys simplify work.	By changing direction of a force. // By increasing speed of doing work.	<i>Multiplies the force</i>
	<p>The diagram below shows a method of family planning. Study it and use it to answer questions 19 and 20.</p> 		<i>Tubuligation</i>
19	Name the method of family planning shown in the diagram above.	Tubal ligation	
20	Give any one disadvantage of the above family planning method.	It leads to permanent sterility/ The method is irreversible. // The method requires cooperation and consent between couples. // The method is expensive since it requires medical operation.	
21	Name the force that opposes sinking of objects in water	Upthrust / Force of buoyancy.	<i>Gravitational force</i>
22	How is the reproduction of a whale different from that of a tilapia	A whale undergoes internal fertilization whereas a tilapia undergoes external fertilization. / A whale gives birth to live young ones whereas a tilapia lays eggs.	
23	State characteristic that enables plants and animals that enables them to be replaced as resources.	They reproduce /Reproduction	
24	Give any one importance of castration of male animals.	Prevents inbreeding//Eliminates inferior genes from the herd.//Makes animals docile and easy to handle. // Enables animals mature/fatten earlier. //Prevents unwanted pregnancies on the farm// Controls spread of venereal diseases on the farm.	

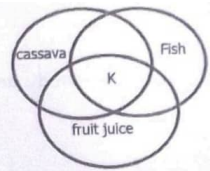
25	Give one importance of sweat to human beings.	Cools the body //Removes wastes from the body in form of sweat	
26	Name any one structure on a farm used as a store for grains.	Grain silo // Granary	
27	Give any one method of making a temporary magnet.	Stroking method // Electrical method // Induction.	<i>Stroking //Electric</i>
28	State any one disadvantage of a chemical change in the environment.	Smoke from burning leads to air pollution. // Rusting weakens metals/ causes metals to wear out. // Decomposition causes vectors like houseflies. // Fermentation spoils milk.	
29	State any one sign and symptom of bilhaziasis in people	Blood stained urine // Lower abdominal pain.//Fever // Difficulty in urination.	
3	<p>The diagram below shows eggs of an amphibian. Study it and use it to answer questions 30 and 31.</p> 		
30	Which amphibian lays the type of eggs show above?	Toad	
31	How are the eggs above fertilized?	Through external fertilization. // They are fertilized externally.	
32	How is joining of good clubs helpful to control antisocial behaviours among children?	It makes children busy./ Prevents idleness among children. // Children acquire good and productive skills.	
33	Give one way of improving the efficiency of wedges.	By sharpening them before use. // Oiling to prevent rusting. //Fixing all parts of the wedge tightly. // Replacing broken or worn out parts regularly	<i>Digestion</i>
34	State one important process that takes place in the ileum.	Absorption of digested food. // Digestion of food.	
35	How is sorting of clothes useful to the person cleaning the clothes?	It prevents staining of some clothes by others. // It prevents mixing of fabric.// Prevents clothes from bleaching.	
36	State the property of magnets that helps a mother to remove iron pins from food before cooking it.	Magnetism can pass through non magnetic materials.	
37	Name the body organ with the part shown above.	Ear /The ear	
38	Name any one material used for cleaning the organ above.	Ear buds // Soft piece of cloth // Handkerchief// water	
39	Give any one importance of proper waste disposal in the environment.	Prevents bad smell in the environment. // Removes breeding places for vectors. // Prevents accidents // Prevents germ infestation. //Prevents outbreak of diarrhoeal diseases. // Maintains smartness.// Prevents littering	

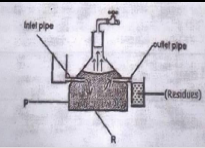

		of the compound	
40	Give one importance of light in the environment.	Light stimulates sense of seeing.// Sunlight helps plants to make their own food. // Helps in taking of photographs. //Helps in production of visual graphics. // Sunlight enables the skin to produce vitamin D.//Strong light rays are used in X-ray machines. //Kills germs when exposed to it.	

SECTION B (60 MARKS)																					
NO	QUESTION/ITEM	CORRECT RESPONSE(S)/ANSWER	WRONG RESPONSES																		
41	<p>The diagram below shows a model of one of the body systems. Study it and use it to answer questions that follow: -</p> 																				
a)	Name the human body system represented above.	Respiratory system																			
b)	What does each of the following materials represent in the system you have mentioned above?																				
i)	Glass tube	Trachea /Wind pipe																			
ii)	Balloon	Lung																			
c)	Why do the balloons expand when the rubber sheet is pulled downwards?	The balloons expand due to air entering them when the rubber sheet is pulled downwards.																			
42	<p>The table below shows blood vessels of the heart and their functions. Fill in the table correctly.</p> <table><tr><th>Blood vessels</th><th>Functions</th></tr><tr><td>Vena cava</td><td>i)</td></tr><tr><td>ii)</td><td>Carries deoxygenated blood from the heart to the lungs.</td></tr><tr><td>Pulmonary vein</td><td>iii)</td></tr><tr><td>iv)</td><td>Carries oxygenated</td></tr></table>	Blood vessels	Functions	Vena cava	i)	ii)	Carries deoxygenated blood from the heart to the lungs.	Pulmonary vein	iii)	iv)	Carries oxygenated	<table><tr><th>Blood vessels</th><th>Functions</th></tr><tr><td>Vena cava</td><td><i>i) Carries deoxygenated blood from all parts of the body to the heart.</i></td></tr><tr><td>ii) Pulmonary artery</td><td>Carries deoxygenated blood from the heart to the lungs.</td></tr><tr><td>Pulmonary vein</td><td><i>iii)Carries oxygenated blood from the lungs to the heart.</i></td></tr></table>	Blood vessels	Functions	Vena cava	<i>i) Carries deoxygenated blood from all parts of the body to the heart.</i>	ii) Pulmonary artery	Carries deoxygenated blood from the heart to the lungs.	Pulmonary vein	<i>iii)Carries oxygenated blood from the lungs to the heart.</i>	
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		blood from the heart to all body parts.	<i>iv) Aorta</i>	Carries oxygenated blood from the heart to all body parts.	
43a)	Give any two examples of physical change	Freezing // Condensation //Deposition //Melting// Evaporation //Sublimation//Dissolving of solutes			
b)	Give any two examples of chemical change that require oxygen to take place.	Rusting // Burning/Combustion// Aerobic respiration			
44a)	Name any one poultry disease caused by a virus apart from Newcastle disease.	Fowl pox // Gumboro // Avian leucosis /Bird flu			
b)	Give any one sign of Newcastle disease.	Green diarrhea // Drooping wings// Bending of the neck//Staggering gaits //Coughing and sneezing // Difficulty in breathing // Mucus discharge from the nose and mouth// Loss of appetite// Moulting of feathers // Drop in egg production //Sudden death of several birds// Twisting of the neck//Lameness			
c)	Give any two ways of controlling diseases on a poultry farm.	By regular vaccination of birds //Isolating sick/infected birds //Culling infected birds // Maintaining proper ventilation in the poultry house //Disinfecting and maintaining proper hygiene in the poultry house.			
45a)	Give any two pieces of information collected using demography.	Births statistics// Deaths statistics //Marriage statistics// Information on housing standards. // Information on immunization coverage // Information on diseases affecting the population //Inforamtion on available health facilities. //Education statistics.			
b)	How is the information given on demography above collected?	Through Censuses // Through Surveys // Through direct observations //Through questionnaires // Through oral and written interviews //Through recording.			
c)	State one reason why the government collects information on demography.	For proper planning of services to be provided to the community. // To avail and provide the missing services to the people.// To solve the community health problems.			
46	The diagram below shows a section of the human skeleton. Study it and use it to answer questions that follow: -				

			
a)	Name the bone marked X and Y	X-Pelvis/Hip bone Y-Femur/Thigh bone.	
b)	Which type of movable joint is located at Z?	Hinge joint	
c)	How is friction reduced at joint labeled Z in the above diagram?	By the help of synovial fluid. // By the help of cartilage.	
47 a)	Apart from mastitis, state any two other bacterial diseases of cattle.	Tuberculosis // brucellosis // Anthrax//Heart water//Anaplasmosis	
b)	Give any two signs which show that an animal is suffering from mastitis.	Swollen udder/swollen teats //The cow refuses to be milked //Blood-stained milk.	
48a)	Give any two factors considered by a health worker before prescribing a drug to a patient.	Age of the patient // Weight of the patient // Intensity of sickness // Medical history of the patient//Strength of the drug//Sex of patient.	
b)	State any one importance of drug prescription to a patient.	It prevents under dose //Prevents overdose //Enables the patient to take the right amounts of drugs.//Prevents drug misuse.	
c)	Give any one reason why it is not advisable to buy drugs from ordinary shops.	Drugs from ordinary shops may be fake. //Drugs from ordinary shops are not prescribed. // Drugs from ordinary drugs are not well stored and may be contaminated. //Drugs from ordinary shops may be expired.	
49a)	Apart from compost manure, name any other one example of natural manure.	Farmyard manure// Green manure	
b)	Give the importance of each of the materials given below when making compost manure.		
	i) Ash	Supplies some minerals/nutrients to compost materials.	
	ii) Water	Water speeds up decomposition of organic materials // Loers temperature of compost materials.	
c)	Name any one method used by crop farmers to apply manure.	Placement// Spraying//Broadcasting//	
50	Match the vaccine in list x to the part of the body where they are administered. <div style="display: flex; justify-content: space-between; border: 1px solid black; padding: 2px;"> X-Vaccine Y-Immunisation site </div>		

	<table><tr><td>BCG vaccine</td><td>Left upper arm</td></tr><tr><td>Polio vaccine</td><td>Right upper arm</td></tr><tr><td>DPT vaccine</td><td>Mouth</td></tr><tr><td>Measles vaccine</td><td>Left upper thigh</td></tr></table>	BCG vaccine	Left upper arm	Polio vaccine	Right upper arm	DPT vaccine	Mouth	Measles vaccine	Left upper thigh		
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d)	Measles vaccine	Left upper arm									
51a)	Name the component of an electric circuit that										
	i) Produces light.	Bulb									
	ii) breaks and completes the circuit.	Electric switch									
b)	Give any one sign of short circuit in a house.	Dimming of light bulbs //Flickering of light bulbs // Sparks of light from the point of contact//Failure of appliance to operate.									
c)	Write any one danger of a short circuit in a house.	Fire outbreak in the house leading to destruction of property // Damaging of electrical appliances.//May lead to death.									
52	<p>The diagram below shows foodstuffs eaten by people in a certain home. Study & use it to answer the questions that follow:</p> <p>-</p> 										
a)	What type of meal is represented by letter K?	Balanced diet									
b)	Why is it advisable for a member of the above family to feed on cassava?	To get energy									
c)	Which foodstuff from the above diagram should a mother give to her children to prevent kwashiorkor?	Fish									
d)	Which class of food does fruit juice provide to the family diet?	Vitamins									
53	<p>The diagram below shows an equipment used to produce fuel. Study and use it to answer the questions that follow: -</p>										

			
a)	Name the fuel produced in the equipment above.	Biogas	
b)	Give one example of material that should be put at R.	Animal dung // Animal urine // Poultry droppings // Peelings of Banana, cassava, potatoes//Husks of maize/millet	
c)	Why is the substance marked with letter P kept air tight?	To prevent the entry of oxygen gas that interferes with fermentation process. //To prevent methane gas/biogas from escaping.	
d)	How is the substance in residues useful to a crop farmer?	It is used as manure for boosting soil fertility.	
54	<p>The diagram below shows a hand washing facility. Study and use it to answer the questions that follow: -</p> 		
a)	Name the hand washing facility above.	Tippy tap	
b)	Name any two diseases that we can control from spreading using the above facility.	Cholera //Typhoid // Covid-19 // Diarrhea // Polio	
c)	Why is the facility above operated using the foot?	To prevent contamination	
55a)	What term is used to refer to the flow of energy from one organism to another?	Food chain	
b)	How is the sun useful in the above feeding relationship?	The sun is a source of energy for producers.	
c)	State one way primary consumers receive the sun's energy.	By feeding on producers.	
d)	Name any one group of mammals that are primary consumers.	Ungulates/Hoofed mammals.	