

PRIMARY LEAVING EXAMINATIONS MARKING GUIDE OF INTEGRATED SCIENCE 2024

Prepared by the Teachers of Integrated Science of 21st Century Platform.

SECTION A: 40 MARKS

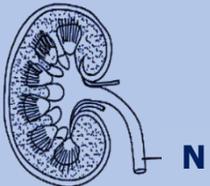
Questions from 1 to 40 carry one mark each.

No	Questions	Correct response(s) or Answer(s)	Rejected Responses	Theme	Topic	Class	Level
1	Name any one type of latrine.	Ordinary pit latrine (Conventional pit latrine)/Ventilated Improved Pit latrine/ ECOSAN latrines/Enviro - loo latrines	<ul style="list-style-type: none"> ✗ Pit latrines ✗ Water closets or flush toilets ✗ Potties 	Human Health	Sanitation	P.6	C
2	Give any one reason why it is dangerous to take shelter under tall trees during rain.	A person can easily be struck by lightning// Tall trees become highly charged due to moisture and conduct negative charges through a person.	<ul style="list-style-type: none"> ✗ It causes death ✗ It causes lightning 	Matter and Energy	Electricity and Magnetism	P.7	C
3	State any one function of the diaphragm during the process of breathing.	The diaphragm changes the volume of the chest cavity// It brings about the relaxation and contractions of the ribs.	<ul style="list-style-type: none"> ✗ The diaphragm contracts and relaxes to allow in air 	Human Body	Respiratory System	P.6	C
4	Name any one agent of soil erosion.	Animals// Flowing water// Wind	<ul style="list-style-type: none"> ✗ Moving vehicles ✗ Overgrazing ✗ Bush burning ✗ Overcultivation 	The Environment	Components of the Environment	P.4	C
5	The diagram below shows an animal in the group of invertebrates. Use it to answer questions 5 and 6.  Name the animal shown in the diagram.	A snail// Garden snail// Water snail	<ul style="list-style-type: none"> ✗ Slug ✗ Oyster ✗ Scallop ✗ Mussel ✗ Clam 	The world of living things	Classification of animals.	P.6	C ↓
6	State the group of invertebrates to which the animal belongs.	Molluscs//Mollusks//Mollusca// Molluska	<ul style="list-style-type: none"> ✗ Cephalopods ✗ Gastropods 				

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7	Mention any one way in which vegetables can be kept fresh for some time.	By keeping vegetables in refrigerators//Keeping vegetables in a cool place//Pickling// Dipping them in cold water// Leaving the vegetables outside during night	<ul style="list-style-type: none"> ⌘ By sun drying vegetables ⌘ By canning vegetables 	Human Health	Our Food	P.4	A
8	State any one way in which bacteria are useful in the formation of soil.	Bacteria help to decompose organic matter to form soil// Bacteria break down organic matter to form soil.	⌘ Bacteria causes weathering of rocks that form soil	The world of living things	Bacteria and Fungi.	P.5	C
9	Give the reason why a person suffering from bilharzia develops anaemia.	Bilharzia fluke feeds on blood leading to anaemia//It creates wounds that lead to bleeding.	⌘ Bilharzia leads to loss of blood in the human body	Human Health	Diseases and Vectors	P.4	C
10	Mention any one way in which air circulation in a rabbit hutch can be improved.	By building rabbit hutches with wire mesh// Ensure enough ventilation// Put a hutch in direction of wind.	<ul style="list-style-type: none"> ⌘ By using wire mesh ⌘ By using ventilators on hutches 	Science in Human Activities and Occupations	Keeping Rabbits	P.4	A
11	State the reason why the human skin develops goose pimples during cold weather.	To prevent heat loss from the body// To reduce heat loss from the body during cold weather// To insulate the body against heat loss// To control heat loss from the body.	<ul style="list-style-type: none"> ⌘ To regulate heat in the body ⌘ To maintain body temperature 	Human Body	Excretory System	P.7	C
12	Give any one way in which you can utilise empty plastic bottles at home.	They are used as storage facilities//They are used as planters or flower vases// They are used for making crafts, toys or play materials //They are used for decoration//They are used to provide drip irrigation in gardens// for drenching animals// Used as hand washing facilities// For carrying out filtration.	<ul style="list-style-type: none"> ⌘ For drinking water. ⌘ For washing hands ⌘ They are used harvesting for water ⌘ For cooking 	The Environment	Resources in the Environment	P.6	A

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13	Mention any one function of a bandage found in a first aid kit.	For holding a broken bone or limb in a position// For covering gauze//It is used as a tourniquet or arm sling	<ul style="list-style-type: none"> For dressing wound 	Human Health	Accidents, First aid and poisoning	P.4	C
14	State any one way in which fermentation is important in our daily life.	Fermentation is used in making local brews or alcohol// It helps in production of biogas//It helps in making yoghurt, cheese and ghee //Fermentation is used in bread baking.	<ul style="list-style-type: none"> Fermentation helps in cooking 	Human Health	Alcohol, Smoking and Drugs in Society	P.6	C
15	State any one reason why a builder would prefer a pulley to an inclined plane when lifting sand from the ground to the top of a building.	Less effort is used in a pulley than in an inclined plane// A pulley does work faster than an inclined plane// The load and effort move a shorter distance in a pulley than in an inclined plane	<ul style="list-style-type: none"> A pulley changes the direction of force Pulleys reduces effort 	Matter and Energy	Friction and Simple machines	P.7	C
16	<p>The diagram below shows a human organ. Use it to answer questions 16 and 17.</p>  <p>Name the organ shown above.</p>	Kidney	<ul style="list-style-type: none"> Reject any body organ other than the human kidney 	Human Body	Excretory System	P.7	C
17	Give the function of the part labelled N .	It carries urine from kidney (pelvis) to the urinary bladder// Transports urine from the kidney(pelvis) to the urinary bladder:	<ul style="list-style-type: none"> It forms urine in the human body 				C

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18	Identify any one effect of pests and diseases on tuber crops.	Pests and diseases damage tuber crops by creating holes on leaves//Pests and diseases lead to stunted and retarded growth of tuber crops// Pest and diseases lead to rotting of tuber crops//Pest and diseases lead to wilting of tuber crops//Pest and diseases lower the yield of tuber crops// Lead to yellowing, curling of leaves	<ul style="list-style-type: none"> ≈ Pests cause diseases to tuber crops. ≈ Pests and diseases attack tuber crops 	Science in Human Activities and Occupations	Crop Growing	P.5	C
19	State any one way in which taking medicine without the instruction of a health worker can affect a family.	It leads to loss of family income// It leads to family poverty// Reduces man power or labour in a family//It causes domestic violence// It causes famine in a family// It causes spouse abuse// It causes child abuse.	<ul style="list-style-type: none"> ≈ It leads to overdose ≈ It causes underdose ≈ It leads to drug misuse ≈ It causes drug poisoning 	Human Health	Alcohol, Smoking and Drugs in Society	P.6	C
20	Mention any one reason why harvesting of honey should be done during day time.	Most worker bees are not in the hive during the day// To minimize death of bees or brood due to clear visibility during the day// Clean honey is harvested during the day.	<ul style="list-style-type: none"> ≈ Worker bees are calm during the day ≈ All bees are outside the hive. 	Science in Human Activities and Occupations	Keeping poultry and Bees	P.5	C
21	Name the disorder in the skeletal system where a bone moves away from its normal position at the joint.	Dislocation	<ul style="list-style-type: none"> ≈ Strain ≈ Sprain ≈ Fracture 	Human Body	Muscular – Skeletal System	P.7	K
22	State the reason why a cubic unit of wool weighs less than a cubic unit of a stone.	A cubic unit of a stone has more density (mass) than that of a stone//The molecules in a cubic unit of a stone are more compacted than those of a cubic unit of wool.	<ul style="list-style-type: none"> ≈ A stone is heavier than wool ≈ Wool has more volume//less weight than a stone 	Matter and Energy	Measurement	P.5	C

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23	State one way in which paddocking method of grazing cattle helps to break the life cycle of pests on a farm.	Paddocking method of grazing starves cattle pests to death due to lack of food//It breaks the life cycle of pests by starving pests like ticks, mites to death.	<ul style="list-style-type: none"> ∞ Paddocking method of grazing cattle prevents pests from attacking cattle ∞ Starve pests 	Science in Human Activities and Occupations	Keeping cattle	P.6	C
24	Give any one way in which rusting is important to the environment.	Rusting adds iron into the soil// Rusting improves on soil fertility	<ul style="list-style-type: none"> ∞ Rusting leads to formation of soil 	Managing Changes in the Environment	Types of Changes in the Environment	P.5	C
25	Name the element of Primary Health Care which promotes the human body cleanliness.	Personal hygiene	<p>Reject any other element, i.e.</p> <ul style="list-style-type: none"> ∞ Sanitation ∞ Health lifestyles ∞ Control of communicable diseases. Etc 	Human Health	Primary Health Care (PHC)	P.5	K
26	Mention any one activity a School Health Club can do to improve the health of people in school.	Conduct health parades// conduct health education through drama, songs and role play// conduct health inspection//Keeping health records //Designing health rules// Reciting poems about health related issues //Discourage antisocial behaviours in a school// Constructing hand washing facilities in a school// Constructing racks	<ul style="list-style-type: none"> ∞ Crop growing ∞ Fish farming ∞ Apiculture ∞ Immunising learners in a school ∞ Feeding learners on a balanced diet 	Human Health	Primary Health Care (PHC)	P.5	A
27	State the property of air used in filling balloons.	Air occupies space// Air exerts pressure	<ul style="list-style-type: none"> ∞ Air has weight ∞ Air can be compressed 	Environment and weather in our sub county/ Division	Air and the sun	P.3	C

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28	State any one way in which planting of trees alongside other crops improves the quality of soil.	Leaves from trees decompose (rot) to form humus//Leguminous trees add nitrogen into the soil// Trees control soil erosion//Tree roots bind soil particles//Allow penetration of water into the soil	<ul style="list-style-type: none"> ∞ It prevents soil erosion ∞ Trees improve on the soil structure ∞ Trees improve on soil fertility 	The Environment	Interdependence of things in the Environment	P.7	C
29	Give one reason why we should regularly wash our hands with clean water and soap.	To kill germs in hands// To kill and remove germs from the hands// To prevent diarrhoeal or faecal diseases.	<ul style="list-style-type: none"> ∞ To be clean ∞ To remove dirt from hands 	Human Health	Personal Hygiene	P.4	C
30	Mention one way in which the antennae of insects are similar to the human skin in terms of function.	Both antennae and human skin are used for feeling// Both antennae and human skin are sense organs for feeling// Both antennae and human skin are sense organs for touch	∞ Reject any similarity that is not in relation to touch and feeling	Living things	Animals in our Sub-county/ Division	P.3	C
31	Give one reason why the vacuum in a thermos flask prevents heat loss by conduction and convection.	There is no matter in vacuum// Vacuum lacks matter// Vacuum has no molecules of matter to transmit heat// It lacks media to transmit heat	<ul style="list-style-type: none"> ∞ Heat does not pass through vacuum ∞ Vacuum is covered by double silvered walls 	Matter and Energy	Heat Energy	P.5	C

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32	<p>The diagram below shows a method of planting crops. Use it to answer questions 32 and 33.</p>  <p>Identify the method of planting crops shown above.</p>	<p>Row planting// planting in rows// Planting in lines.</p>	<p>⊗ Broadcasting method</p> <p>OR</p> <p>⊗ Casting method</p>	<p>Science in Human Activities and Occupation</p>	<p>Crop growing</p>	<p>P.4</p>	<p>C</p>
33	<p>State any one advantage of the method of planting crops shown in the diagram above.</p>	<p>It eases harvesting of crops// Eases weeding// Eases pruning of crops// Eases spraying of crops // Reduces hiding places of crop pests// Eases mulching of crops// It allows easy use of machines in a garden (mechanisation)</p>	<p>⊕ It breaks down the life cycle of pests and diseases.</p> <p>⊗ It controls weeds in a garden.</p>				
34	<p>Give any one example of an emotional change in adolescents.</p>	<p>They develop mood swings// They get more interested in members of opposite sex// They get disappointed easily // They become rebellious// They form peer groups// They become ambitious</p>	<p>⊗ Reject any change that is not psychological in adolescents</p>	<p>Human Body</p>	<p>Reproductive System</p>	<p>P.6</p>	<p>C</p>
35	<p>Name the immunisable viral disease which is spread due to poor sanitation.</p>	<p>Polio//Poliomyelitis</p>	<p>⊗ Hepatitis B</p> <p>⊗ Yellow fever</p> <p>⊗ Measles</p> <p>⊗ COVID – 19</p> <p>⊗ Rubella</p>	<p>Human Health</p>	<p>Immunization</p>	<p>P.5</p>	<p>K</p>
36	<p>State the reason why a ray of light bends as it passes through a glass block.</p>	<p>Due to difference in the densities of media of light// Due to decrease in speed of light as it passes from a less dense medium to a more dense medium and visa versa.</p>	<p>⊗ Due to refraction of light</p> <p>⊗ A glass block is heavy</p>	<p>Matter and Energy</p>	<p>Light Energy</p>	<p>P.7</p>	<p>C</p>

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37	State any one way of conserving water as a resource in the environment.	Protecting water sources// By not cultivating near water sources//Avoid dumping domestic and industrial wastes into water sources//Prevent animals from drinking directly from a water sources//Avoid draining water sources//Fencing borehole or well	<ul style="list-style-type: none"> ≈ Fencing water sources ≈ Avoid bush burning ≈ Harvesting rainwater 	The Environment	Resources in the environment	P.6	A
38	Mention one reason why you are encouraged to brush the tongue as well when cleaning the teeth.	To prevent bad breath// To remove germs from the tongue// To remove food particles (remains) on the tongue// To improve on oral health	<ul style="list-style-type: none"> ≈ To remove microbes from the tongue. ≈ To avoid bad breathe 	Human Health	The teeth	P.4	C
39	Mention any one way in which electric shocks can be prevented in a home	Insulating naked wires//Using experts to install electricity//Wearing gloves when installing electricity//Avoid pushing metallic objects into sockets//Avoid overloading sockets// Read instructions on how to use electric appliances.	<ul style="list-style-type: none"> ≈ Avoid touching electric wires. ≈ By proper use of electricity. 	Matter and Energy	Electricity and Magnetism	P.7	A
40	Give any one way in which crop farmers can keep seeds viable for a long time.	By drying seeds properly before storage// Dressing seeds to protect them from pests// Dusting seeds//Proper storage of seeds// Use of chemicals to preserve seeds.	<ul style="list-style-type: none"> ≈ By carrying out seed selection ≈ Harvesting mature seeds ≈ Keeping seeds in a granary 	Science in Human activities and Occupation	Crop growing	P.4	A

SECTION B: 60 MARKS.

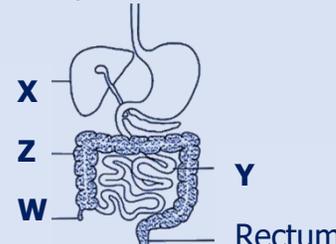
Questions **41** to **55** carry four marks each.

41	(a) Name the class of food that helps in repair of body cells.	Proteins	<ul style="list-style-type: none"> ≈ Grow food ≈ Body building food 	Human Health	Our Food	P.4	A ↓
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	(b) Apart from contamination of food, mention any two other challenges that people who buy food from markets get.	Overstayed food//inadequate food supply//wrong measurements //Buying fake food//Buying expensive food//Buying low quality or quantity food// Lack of varieties of food in the market	<ul style="list-style-type: none"> ≈ Buying of expired food ≈ Buying of rotten food ≈ Buying of spoiled food 					↓
	(c) State any one way of controlling food contamination in a market.	Cleaning market areas regularly //Proper storage of food // Regular inspection of markets // Keeping food in clean containers // Proper covering of food// Observe personal hygiene// By refrigeration of food	<ul style="list-style-type: none"> ≈ Smoking food in a market ≈ Salting food in a market ≈ Sun drying food. 					
42	(a) Name the germ that causes cholera	Bacteria	≈ Vibrio cholerae.	Human Health	Vectors and Diseases	P.4	A	↓
	(b) Explain why cholera is common in heavily populated communities. (02 marks)	There is poor disposal of human waste leading to contamination of water which spreads cholera// There is poor sanitation which increases houseflies that spread germs that cause cholera.	<ul style="list-style-type: none"> ≈ Presence of houseflies in heavily populated communities ≈ There are limited latrines 					
	(c) Apart from proper use of latrines, mention any one other way of controlling the spread of cholera in the communities in (b) above.	Through boiling water for drinking//Covering food//Proper washing of hands//Ensure food hygiene//Bury or burn wastes// Heat leftover food before eating//Proper sanitizing//Spray houseflies and cockroaches using insecticides	<ul style="list-style-type: none"> ≈ Slashing tall bushes around homes ≈ Drinking clean water 					
43	(a) Name the correct garden tool for transplanting seedlings.	Trowel// Garden trowel	≈ Reject any garden tool other than a trowel or garden trowel	Science in Human Activities And Occupations	Crop Growing	P.4	C	↓

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	<p>(b) State the reason why evening time is the best for transplanting seedlings.</p>	<p>There is low temperature in the evening time which prevents plants from withering or wilting//There is low temperature in the evening that prevents wilting of seedlings</p>	<p>∞ There is no transpiration in the evening ∞ To enable the roots of seedlings to absorb water in the evening</p>				↓
	<p>(c) Mention any two advantages of mulching a garden after transplanting.</p>	<p>Mulch controls soil erosion// Mulch improves on soil fertility// Mulch retains moisture in the soil// Mulch controls growth of weeds</p>	<p>∞ Mulch controls pests</p>				
44	<p>The diagram below shows part of the human digestive system. Use it to answer the questions that follow.</p>  <p>(a) Name the parts labelled; (i) X (ii) W</p> <p>(b) State any one function of the following parts: (i) Y (ii) Z</p>	<p>(i) X: Liver (ii) W: Appendix</p>	<p>(i) X: Reject Gall bladder (ii) W: Reject large intestine</p>	Human Body	Digestive System	P.5	C ↓
		<p>(i) Y: Absorbs digested food// It helps in digestion of food. (ii) Z: It absorbs water// It is where absorption of water takes place.</p>	<p>(i) Y: It transports food (ii) Z: It transports faeces/ wastes</p>				

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45 The table below shows some of the steps followed in the cleaning of clothes and the purpose of each step. Complete the table correctly.

Step	Purpose
.....	Separating cloths according to washing needs.
Soaking
.....	Removing dirty soapy water from the clothes.
Ironing

Step	Purpose
Sorting	Separating cloths according to washing needs
soaking	Soften stains on clothes// Softens dirt
Rinsing	Removing dirty soapy water from the clothes.
Ironing	To kill germs on clothes//To kill ectoparasites on clothes

Soaking: It eases washing of clothes// It removes dirt on clothes // it softens clothes.

Ironing: It dries clothes// Removes folds// To be smart.

Science in Human Activities and Occupations

Science at Home and in Our community

P.6

C



46 (a) Give the meaning of the term **electromagnet**.

Electromagnet is a type of magnet made using electricity.

Electromagnet is permanent magnet that is made through electricity.

Matter and Energy

Electricity and Magnetism

P.7

A



(b) You are provided with the following items: iron nail, copper wire, a dry cell and some pins.

Describe how you can use the items to make a magnet.
(03 marks)

- Steps**
- (i) Coil a copper wire on an iron nail.
 - (ii) Connect the copper wire to the positive and negative terminals of a dry cell.
 - (iii) Bring the pins nearer to the iron nail.
 - (iv) The iron nail will attract the pins which shows that the nail is magnetized.

Reject diagram without any explanation on how to make a magnet using a dry cell, iron nail, copper wire and some pins.

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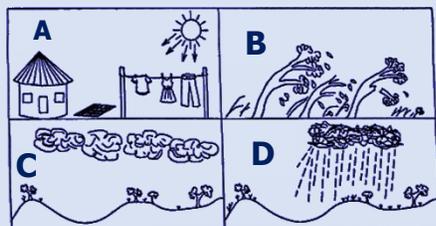
47	(a) Mention any two materials that can be used in a digester to produce biogas.	Animal dung// Plant refuse//Chicken droppings//Plant peelings// Food wastes//Molasses	<ul style="list-style-type: none"> ∞ Wood shavings ∞ Sawdust ∞ Reject any nonbiodegradable waste material 	The Environment	Energy Resources in the Environment	P.7	C
	(b) Give a reason why a biogas digester should be tightly sealed.	To prevent oxygen from entering into the biogas digester// To prevent methane gas from escaping	∞ To enable ease fermentation to take place in the biogas digester				
	(c) State any one advantage of using biogas.	Use of biogas does not pollute the environment// Use of biogas conserves environment//Reduces deforestation// Use of biogas is cheap// Use of biogas encourages maximum use of refuse// The residue is used as manure.	<ul style="list-style-type: none"> ∞ It provides energy for cooking food ∞ It provides energy for lighting 				
48	<p>The diagram below shows a person wearing a protective item made of cloth. Use it to answer the following questions.</p> 	Mask// Facemask	<ul style="list-style-type: none"> ∞ Nose mask ∞ Mouth mask 	Human Body	Respiratory System	P.6	A
	(a) Name the protective item labelled K .						
	(b) Identify any two diseases that can be prevented by the use of the protective item K .	Tuberculosis// COVID – 19// Pneumonia // Pertussis (whooping cough)//Meningitis //Influenza (Flu) //Diphtheria//Bronchitis//SARS// Measles	<ul style="list-style-type: none"> ∞ Lung cancer ∞ Emphysema ∞ Asthma ∞ Coronavirus 				

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	(c) Mention any one good practice of using the protective item K .	By washing it using clean water and soap regularly//Iron it//Dry it under the sun//Do not share it//Wash hands before touching it//Wear it correctly//Sanitize it.	<ul style="list-style-type: none"> ∞ By keeping it dry ∞ By wearing it in public 				
49	(a) Mention any one example of musical instruments in each of the groups below: (i) String instrument (ii) Percussion instruments	(i) Guitar// Lyre// Bow harp ("Adungu") // Violin// Viola// Tube fiddle// Banjo// Cello// Sitar//Piano (ii) Drum// Long drum// Bell// Xylophone// Thumb piano// Shakers//Rattles//Rhythm sticks// Organ// Keyboard	(i) Reject non string musical instrument. (i) Reject an instrument that non membranous	Matter and Energy	Sound Energy	P.6	C
	(b) Name any two methods of storing sound.	Mechanical (physical) method// Magnetic method// Electromagnetic method	<ul style="list-style-type: none"> ∞ Recording ∞ Writing 				
	(a) State the name of insects that live and work together.	Social insects	<ul style="list-style-type: none"> ∞ Honeybees ∞ Termites 				
50	(b) Give any one way in which insects are useful to people.	Some insects are eaten as food// Some insects are sold to get money//Insects like honeybees provide honey and beeswax to people// Some insects pollinate farmers' crops// Used as poultry feeds// For research or study purpose// Source of fibre for textile industry	<ul style="list-style-type: none"> ∞ Insects provide honey to people ∞ Insects provide silk 	Living things	Animals in our sub-county/ Division	P.3	C
	(c) State any two activities that are dangerous to insects in the environment.	Bush burning // Deforestation// Spraying chemicals//Swarm drainage// Applying herbicides//Applying oil on stagnant water or still water//Destroying the habitats like anthills//Keeping fish in ponds	<ul style="list-style-type: none"> ∞ Afforestation ∞ Re-afforestation Or Planting of trees 				

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The diagram below shows types of weather. Study it and answer the questions that follow.



(a) Name the type of weather marked C.

(b) State any **one** way in which the type of weather in A helps in formation of the type of weather in D.

(c) Give **one** way in which people protect themselves from the effects of the type of weather in B.

(d) State any **one** way in which too much of the type of weather in A is dangerous to the environment.

Cloudy weather

Weather type A heats water in water bodies and cause evaporation// Heats plants and cause transpiration// It heats plants and water in water bodies and cause evapotranspiration.

By planting trees around houses (afforestation) //reafforestation// constructing strong permanent houses with strong roofs// Planting short grass in the compound//Creating wind escape ways// Wearing glasses, helmets

Weather type A causes drought// Leads to global warming// Leads to death of vegetation and animals// Leads to death of animals and people//Dries water in water bodies// Increases temperature// Reduces rainfall//Destroys water habitats

Reject cloud cover or clouds

Reject any type of weather other than cloudy weather

Weather type A heats water bodies

Weather type A causes transpiration to take place in plants.

Staying indoors

By wearing jackets and sweaters

It causes weathering of rocks in the environment.

Environment

Weather changes around us.

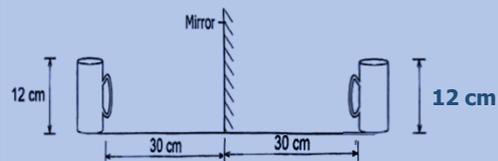
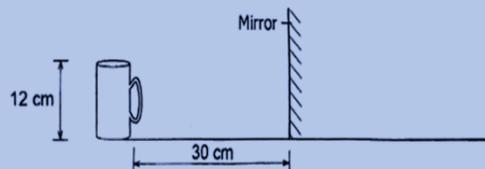
52	(a) State the meaning of the term vaccine .	Vaccine is a special drug introduced into the body to cause it produce antibodies against germs, pathogens or immunisable diseases// A special drug made from killed or weakened germs introduced into the body to produce antibodies against disease causing germs	<ul style="list-style-type: none"> ⌘ Reject any response without boosting or causing immunity 	Human Health	Immunization	P.5	A ↓
	(b) Mention the way in which polio vaccine is administered.	Polio vaccine is administered orally// Through mouth drops// By injection	<ul style="list-style-type: none"> ⌘ Reject by vaccination 				
	(c) State the reason why vaccines should be stored in a cool place.	To maintain their strength or effectiveness// To prevent the vaccines from getting spoilt//To keep the weakened germs dormant or inactive.	<ul style="list-style-type: none"> ⌘ To keep them at a right temperature. 				
	(d) Identify any one way in which you can support immunization programmes in your community.	Taking children for immunization// Sensitising people about immunisation programmes //Accepting to be immunized// Reciting poems about immunisation// Reminding people on immunisation dates// Organising immunisation venue.	<ul style="list-style-type: none"> Reject. ⌘ Supplying vaccines ⌘ Scheduling immunisation programmes 				
53	(a) Name the physical change that leads to the formation of the following: (i) Ice (ii) Rainfall	(i) Freezing (ii) Condensation	(i) Reject any physical changes other than freezing (ii) Reject any physical change other than condensation	Managing Changes in the Environment	Types of Changes in the Environment	P.5	C ↓

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	(b) State any two effects of physical changes caused by soil erosion in the environment.	Destruction of property// Lead to soil exhaustion//Lead to silting of water bodies//Spoiling of roads due to formation of gullies//Destruction of aquatic animals// Causes floods//Lead to deformation of land forms//Lead to contamination of water sources//Lead to blockage of water channels// Lead to shallowing of water bodies	<ul style="list-style-type: none"> ≈ They lead to poor sanitation in the environment. ≈ They lead to poor disposal of waste in the environment ≈ They form galleys 				
54	(a) Name the two muscles found in the human arm.	Biceps// Triceps	Reject <ul style="list-style-type: none"> ≈ Flexors ≈ Extensors 	Human Body	Muscular – Skeletal System	P.7	C
	(b) Give any one function of muscles in the human body.	Muscles aid movement// Cardiac Muscles help in pumping blood// Muscles store oxygen in myoglobin// Diaphragm and intercostal muscles aid breathing// Muscles store energy in the body// Muscles of blood vessels help in transporting blood// Muscles join bones in the human body// Muscles enable us to do heavy activities// Sphincter muscles control flow of urine in body	Reject <ul style="list-style-type: none"> ≈ Muscles hold some body parts 				
	(c) State the importance of maintaining correct posture in humans.	Correct posture prevents deformation of bones// Prevents chest, neck and back pains// Correct posture eases digestion of food// Correct posture helps in proper functioning of body organs// Help in proper growth of muscles	Reject <ul style="list-style-type: none"> ≈ Correct posture prevents diseases in the human body 				

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(a) The diagram below shows a cup 12 cm high placed 30 cm in front of a plane mirror. Draw the image of the cup. (02 marks)



Reject a diagram with an image that is not laterally inverted to the object.

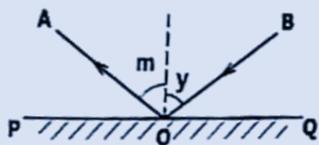
Matter and Energy

Light Energy

P.7

A

(b) The diagram below shows a reflection on a plane mirror PQ.



Reflected ray

Incident ray.

(i) Name ray A.

(ii) State the relationship between angles m and y.

Angle m is equal to angle y//Both angles m and y are equal//
 $\angle m = \angle y$

Reject Both angles lie in the same plane

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Below are some of the Expert Teachers in 21st Century Platform who greatly Contributed in the process of Developing the Marking Guide.

No	Name of Teacher	Address (Location)	Telephone Number
1	Mr. EMETU JUVENTINE	STEP UP EXAMINATIONS BOARD	0778347223 - 0781254710
2	Mr. WASIKE WYCLIFF	SUPERIOR PRIMARY SCHOOL - GGABA	0781294275 - 0751164735
3	Mr. KALULE NOAH	PACE EXAMINATIONS BOARD AND E- LEARN EXAMS BOARD	0754742152 - 0764615377
4	Mr. EPIDU PAUL	ST. THOMAS PRIMARY SHOOOL - LIRA	0788281825 - 0707986278
5	Mr. SIMON MAKAIRE	NAMIREMBE PARENTS' SCHOOL - KAMPALA	0786303164 - 0753635454
6	Mr. AYIKO STEPHEN	UGANDA MARTYRS PRIMARY SCHOOL - LUBAGA	0782243576 - 0741624873
7	Mr. TYAN GRANT IGNATIUS	DAABUS NURSERY AND PRIMARY SCHOOL - BUSIA	0784517475 - 0752233995
8	Mr. RYAN ABDULRAHMA KYOBE	IVORY INTERNATIONAL SCHOOLS - BULENGA	0754935992 - 0708689562
9	Mr. SAMUEL TWEHEYO	RUBANDA SOLIDARITY PRIMARY SCHOOL - RUBANDA	0776641849 - 0742967257
10	Mr. AYIKO JAMES	ST JOSEPPH PRIMARY SCHOOL - BUSUKUMA	0776272833 - 0726920726
11	Mr. NAHWERA EDMAND	CLAIRE JUNIOR SCHOOL - MBARARA	0761295430 - 0744366342
12	Mr. STEPHEN LWANGA	LIFE JUNIOR SCHOOL - MAGANJO	0759099750 - 0707564406
13	Mr. JEREMIAH EMUNYU	CLEVERS' ORIGIN SCHOOLS - KAMPALA	0779292768 - 0754771577
14	Mr. SSEBAGALA SADAT	PURSUIT EXAMINATIONS BOARD - KAMPALA	0789522801 - 0751522801
15	Mr. GONJA STEVEN	QUALITY EDUCATION SCHOOL - GGABA	0761041879 - 0703859463
16	Mr. ABIMA WILSON	PALS LEGACY JUNIOR SCHOOL - NANSANA	0784354456 - 0758808697
17	Mr. OKISE LUKE	KITEBI BRIGHT NURSERY AND PRIMARY SCHOOL	0772030596 - 0705165721
18	Mr. OWAMAANI PRECIOUS	NTUNGAMO PARENTS KANUNGU	0788220069 - 0707776316
19	Mr. EPUL TITUS	KIGALI PARENTS' SCHOOL - RWANDA	0784564668 - + 250794416831
20	Mr. MUGENYI DANIEL	ST. BENEDICT NURSERY AND PRIMARY SCHOOL - MASAJA	0786616884 - 0752603867
21	Mr. MALIAMUNGU PATRICK	ST. MICHEAL AND THOMAS JUNIOR SCHOOL	0785380091 - 0762221990
22	Mr. MUWANGUZI TOM	RED ROCK JUNIOR SCHOOL - LUBAGA	0761603679 - 0706095187
23	Mr. AYIKO STEPHEN	UGANDA MARTYRS PRIMARY SCHOOL - LUBAGA	0782243576 - 0741624873
24	Mr. ODUR ALEXIA	ST. THOMAS PRIMARY SCHOOL - LIRA	0773895623 - 0392002889
25	Mr. HERBERT OCULI	MIRACLE DESTINY SCHOOL - KAWEMPE	0781881157 - 0742524920

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Editors

	Name	Address	Telephone number
1	Mr. OKWII JOHN	PEARL JUNIOR SCHOOL MBALALA - MUKONO	0775120363 - 0705689968
2	Mr. SIMON MAKAIRE	NAMIREMBE PARENTS' SCHOOL - KAMPALA	0786303164 - 0753635454
3	Mr. KALULE NOAH	PACE EXAMINATIONS BOARD AND E – LEARN EXAMS BOARD	0754742152 - 0764615377
4	Mr. EMETU JUVENTINE	STEP UP EXAMINATIONS BOARD	0781254710 - 0778347223
5	Mr. JEREMIAH EMUNYU	CLEVERS' ORIGIN SCHOOLS - KAMPALA	0779292768 - 0754771577
6	Mr. MUGENYI DANIEL	ST. BENEDICT NURSERY AND PRIMARY SCHOOL - MASAJA	0786616884 - 0752603867
7	Mr. WASIKE WYCLIFF	SUPERIOR PRIMARY SCHOOL - GGABA	0781294275 - 0751164735
8	Mr. ETOYI TOM	PURSUIT EXAMINATIONS BOARD - KAMPALA	0786505254 - 0705105780

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Compiled by: **EToyI TOM** – 0786505254 - 0705015780

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