


PRIMARY LEAVING EXAMINATIONS MARKING GUIDE OF INTEGRATED SCIENCE 2024

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

SECTION A: 40 MARKS

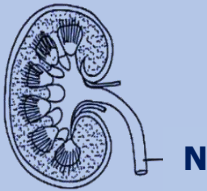
Questions from 1 to 40 carry one mark each.

| 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 | <p>The diagram below shows an animal in the group of invertebrates. Use it to answer questions 5 and 6.</p>  <p>Name the animal shown in the diagram.</p> | 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. | <ul style="list-style-type: none"> 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. | <ul style="list-style-type: none"> 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 | 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. | 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 | 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: | It forms urine in the human body | | | | |

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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 | Reject any other element, i.e. <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 | <ul style="list-style-type: none"> 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> | Row planting// planting in rows// Planting in lines. | <p>✗ Broadcasting method</p> <p>OR</p> <p>✗ Casting method</p> | Science in Human Activities and Occupation | Crop growing | P.4 | C |
| 33 | State any one advantage of the method of planting crops shown in the diagram above. | <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 | Give any one example of an emotional change in adolescents. | 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 | ✗ Reject any change that is not psychological in adolescents | Human Body | Reproductive System | P.6 | C |
| 35 | Name the immunisable viral disease which is spread due to poor sanitation. | Polio//Poliomyelitis | <p>✗ Hepatitis B</p> <p>✗ Yellow fever</p> <p>✗ Measles</p> <p>✗ COVID – 19</p> <p>✗ Rubella</p> | Human Health | Immunization | P.5 | K |
| 36 | State the reason why a ray of light bends as it passes through a glass block. | 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>✗ Due to refraction of light</p> <p>✗ A glass block is heavy</p> | Matter and Energy | Light Energy | P.7 | C |

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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.

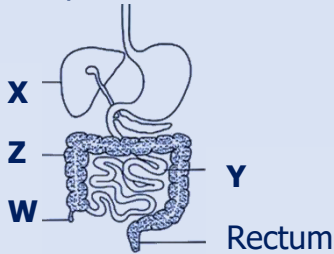
Questions **41** to **55** carry four marks each.

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| 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 spoilt 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 |  |
| | (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 |  |


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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 | <p>The table below shows some of the steps followed in the cleaning of clothes and the purpose of each step. Complete the table correctly.</p> <table><tr><th>Step</th><th>Purpose</th></tr><tr><td>.....</td><td>Separating cloths according to washing needs.</td></tr><tr><td>Soaking</td><td>.....</td></tr><tr><td>.....</td><td>Removing dirty soapy water from the clothes.</td></tr><tr><td>Ironing</td><td>.....</td></tr></table> | Step | Purpose | | Separating cloths according to washing needs. | Soaking | | | Removing dirty soapy water from the clothes. | Ironing | | <table><tr><th>Step</th><th>Purpose</th></tr><tr><td>Sorting</td><td>Separating cloths according to washing needs</td></tr><tr><td>soaking</td><td>Soften stains on clothes// Softens dirt</td></tr><tr><td>Rinsing</td><td>Removing dirty soapy water from the clothes.</td></tr><tr><td>Ironing</td><td>To kill germs on clothes//To kill ectoparasites on clothes</td></tr></table> | 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 | <p>Soaking: It eases washing of clothes// It removes dirt on clothes // it softens clothes.</p> <p>Ironing: It dries clothes// Removes folds// To be smart.</p> | Science in Human Activities and Occupations | Science at Home and in Our community | P.6 | C |
|---------|---|--|--|-------------------|---|---------|-------|-------|--|---------|-------|--|------|---------|---------|--|---------|--|---------|--|---------|---|---|---|--------------------------------------|-----|---|
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | <p>(a) Give the meaning of the term electromagnet.</p> | 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 | | | | | | | | | | | | | | | | | | | | |
| | <p>(b) You are provided with the following items: iron nail, copper wire, a dry cell and some pins.</p> <p>Describe how you can use the items to make a magnet.</p> <p>(03 marks)</p> | <p>Steps</p> <p>(i) Coil a copper wire on an iron nail.</p> <p>(ii) Connect the copper wire to the positive and negative terminals of a dry cell.</p> <p>(iii) Bring the pins nearer to the iron nail.</p> <p>(iv) The iron nail will attract the pins which shows that the nail is magnetized.</p> | Reject diagram without any explanation on how to make a magnet using a dry cell, iron nail, copper wire and some pins. | | | | | | | | | | | | | | | | | | | | | | | | |

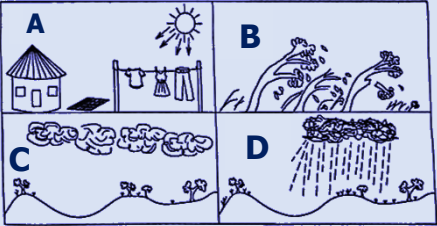
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| 47 | (a) Mention any two materials that can be used in a digester to produce biogas. | Animal dung// Plant refuse//Chicken droppings//Plant peelings// Food wastes//Molasses | <ul style="list-style-type: none"> ✗ Wood shavings ✗ Sawdust ✗ Reject any 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 | <ul style="list-style-type: none"> ✗ 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 |
| | <p>(a) Name the protective item labelled K.</p> <p>(b) Identify any two diseases that can be prevented by the use of the protective item K.</p> | <p>Tuberculosis// COVID – 19// Pneumonia // Pertussis (whooping cough)//Meningitis //Influenza (Flu) //Diphtheria//Bronchitis//SARS// Measles</p> | <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 | | | | |
| 50 | (a) State the name of insects that live and work together. | Social insects | <ul style="list-style-type: none"> Honeybees Termites | Living things | Animals in our sub-county/ Division | P.3 | C |
| | (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 | | | | |
| | (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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|----|--|---|---|-------------|----------------------------|-----|---|
| 51 | <p>The diagram below shows types of weather. Study it and answer the questions that follow.</p>  <p>(a) Name the type of weather marked C.</p> <p>(b) State any one way in which the type of weather in A helps in formation of the type of weather in D.</p> <p>(c) Give one way in which people protect themselves from the effects of the type of weather in B.</p> <p>(d) State any one way in which too much of the type of weather in A is dangerous to the environment.</p> | <p>Cloudy weather</p> <p>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.</p> <p>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</p> <p>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</p> | <p>✗ Reject cloud cover or clouds</p> <p>✗ Reject any type of weather other than cloudy weather</p> <p>✗ Weather type A heats water bodies</p> <p>✗ Weather type A causes transpiration to take place in plants.</p> <p>✗ Staying indoors</p> <p>✗ By wearing jackets and sweaters</p> <p>✗ It causes weathering of rocks in the environment.</p> | Environment | Weather changes around us. | P.4 | A |
|----|--|---|---|-------------|----------------------------|-----|---|

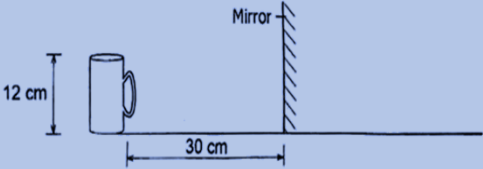
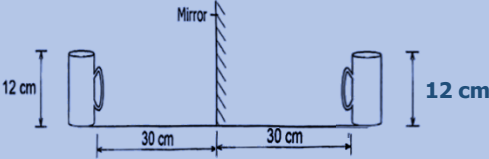
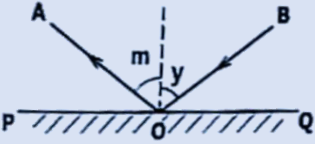
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|----|--|---|--|-------------------------------------|-------------------------------------|-----|--------|
| 52 | (a) State the meaning of the term vaccine . | Vaccine is a special drug introduced into the body to cause it produce antibodies against 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 | ✗ 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 | ✗ 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. | ✗ 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. | 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 | ✖ 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 ✖ 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 ✖ 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 ✖ Correct posture prevents diseases in the human body | | | | |

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|----|---|--|--|-------------------|--------------|-----|---|
| 55 | <p>(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)</p>  |  | Reject a diagram with an image that is not laterally inverted to the object. | Matter and Energy | Light Energy | P.7 | A |
| | <p>(b) The diagram below shows a reflection on a plane mirror PQ.</p>  <p>(i) Name ray A.</p> | Reflected ray | Incident ray. | | | | |
| | <p>(ii) State the relationship between angles m and y.</p> | 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 |
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| 7 | Mr. TYAN GRANT IGNATIUS | DAABUS NURSERY AND PRIMARY SCHOOL - BUSIA | 0784517475 - 0752233995 |
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| 13 | Mr. JEREMIAH EMUNYU | CLEVERS' ORIGIN SCHOOLS - KAMPALA | 0779292768 - 0754771577 |
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| 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 |
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Editors

| | <i>Name</i> | <i>Address</i> | <i>Telephone number</i> |
|---|---------------------|---|--------------------------------|
| 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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