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OF
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"Quest for excellence"

THE DREAM EDUCATION CONCERN

OFFICIAL MARKING GUIDE INTEGRATED SCIENCE

PRE- PRIMARY LEAVING EXAMINATION SET-III



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CER

WE HAVE
B.O.T FROM
BABY TO P.6


WHATSAPP
US ON -
0759380519

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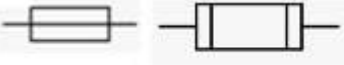

SECTION A (40 MARKS)

NO	RESPONSE AND CONTENT GUIDANCE	CLASS
1	<p>Which vaccine is given to babies at the age of 36 weeks?</p> <p>That is measles vaccine</p> <p>Related content</p> <p>Immunity is the ability of the body to resist against disease causing germ.</p> <p>-White blood cells are used to fight against disease causing germs.</p> <p>-red blood cells carry oxygen to all other parts of the body from the lungs.</p> <p>Immunisation is the introduction of vaccines into the body to protect it against disease causing germs</p>	P5
2	<p>Name the electrolyte which is used in wet cells.</p> <p>Dilute sulphuric acid</p>	P7
3	<p>Which part of an egg holds the egg yolk in the central position?</p> <p>That is the chalaza</p> <p>Related content</p> <p>The egg has the air space which is used for gaseous exchange</p>	P5
4	<p>Outline any one condition which is needed for germination to take place.</p> <p>-Presence of oxygen</p> <p>-Presence of warmth</p> <p>-Presence of water</p> <p>Related content</p> <p>Germination is the growing of a seedling into a new young plant.</p> <p>Types of germination</p> <p>-Hypogeal germination</p> <p>-Epigeal germination</p>	P4
5	<p>In one way, mention how long thinned legs are important to wading birds.</p> <p>-Long thinned legs help wading birds to walk through water</p> <p>-Long thinned legs help wading birds to walk through muddy places</p>	P6
6	<p>State one importance of a kink on a clinical thermometer.</p> <p>To prevent the back flow of mercury.</p>	P5
7	<p>Name the blood cell below.</p>  <p>Its a white blood cell</p> <p>Related content</p> <p>Characteristics of red blood cell</p> <p>-They have biconcave and discoid shape</p> <p>-Rich in haemoglobin</p> <p>-Carry oxygen from the lungs to the tissues in the body</p> <p>-Carry carbon dioxide from the peripheral tissues to the lungs</p>	P6
8	<p>Write PIASCY in full.</p> <p>Presidential Initiative on Aids Strategy for communication for youth.</p>	P3

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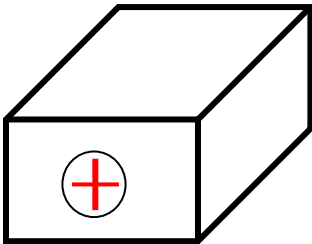
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9	<p>Find the force applied to over come the load of 50kg using a single fixed pully.</p> <p>Solution process</p> <p>Mechanical advantage = load divided by effort</p> <p>Symbolic expression =</p> $MA = \frac{\text{Load}}{\text{Effort}}$ $M = \frac{L}{E}$ $M = \frac{50\text{kg}}{E}$ $L \times E = \frac{50\text{kg} E}{E}$ <p>Effort = 50kgf</p> <p>Related content</p> <p>Force is the product of force and its distance.</p>	P7
10	<p>Why do bees swarm?</p> <ul style="list-style-type: none"> -Due to over crowding -Due to lack of pheromone production from the queen bee <p>Related content</p> <ul style="list-style-type: none"> -Swarming is the movement of a large group of bees from one place to another -A queen bee excluder prevents the queen bee from entering the honey chambers. 	P4
11	<p>Draw any one symbol which is used in an electric circuit.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>voltmeter</p> </div> <div style="text-align: center;">  <p>Bulb</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;">  <p>fuse</p> </div> <div style="text-align: center;">  <p>Switch</p> </div> </div>	P7
12	<p>Suggest any one composition of poultry feeds</p> <ul style="list-style-type: none"> -Sprat fish -Bone meat -Common salt -Maize meal -Sea shells 	P5
13	<p>How important is iron in our blood?</p>	P4

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	Iron is used to form the red pigment or substance in blood called Haemoglobin.	
14	<p>State any one quality of essential drugs.</p> <ul style="list-style-type: none"> -They should be available -They should be affordable -They should be with value for money -They must have been certified by the drug Authority <p>Related content Essential drugs. These are drugs that meet people's health needs. Or: These are drugs needed to care, prevent, and control common diseases affecting the majority of people in an area or community. Examples of essential drugs</p> <ul style="list-style-type: none"> -Chloroquine -Paracetamol -Cough mixture -Tetracycline -ORS 	P6
15	<p>Suggest the name for the structure below.</p>  <p>It is a first aid box</p> <p>Related content A first Aid box is a container where things used to give first aid are kept. Places where a first aid box can be found</p> <ul style="list-style-type: none"> -Schools -Homes -Airports -Industries -Petrol station <p>Reasons why we give first aid</p> <ul style="list-style-type: none"> -To stop bleeding -To reduce pain -To save life <p>First Aid is the first/immediate/initial help given to a casualty before being taken to the health centre /hospital</p>	P4
16	<p>What scientific term is used to mean the method of separating solid particles from liquids?</p> <p>It's called decantation</p>	P5

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17	On which body part is BCG vaccine administered? It's administered on the right upper arm	P7
18	Mention any one poultry vice you know. -Cannibalism -Toe pecking -Egg eating -Feather pecking Related content -Poultry vices are bad habits in poultry Causes of poultry vices -Lack of enough space -Over crowded in one room -Lack of enough feeds and water	P5
19	In which chamber of ruminants' stomach is food digested? Food is digested in the rumen Related content One of the enzymes which is used to digest food in rumen is called cellulase	P6
20	What type of electricity is lightening? It's static electricity	P7
21	Of what importance is the rings cartilages of the trachea in respiratory system? It maintains the trachea open when pressure falls	
22	Suggest one method of de-horning animals. -Use of hot iron -Use of spoon de-horning -Use of chemicals like sodium hydroxides	
23	Suggest any one example of communicable diseases. -Measles -Diarrhea -Aids -Malaria -Dysentery -Polio -Tuberculosis Related content Communicable diseases are diseases which can spread from one person to another. Examples of non communicable diseases -Diabetes -Anaemia -Kwashiorkor -Heart attack Examples of diarrheal diseases -Dysentery -Diarrhea -Cholera	P4

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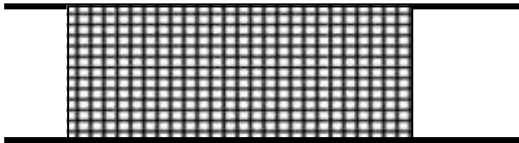
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	-Typhoid	
24	<p>Outline any one difference between dicotyledon and monocotyledon seeds.</p> <p>-Dicotyledons have two cotyledons while monocotyledon have only one cotyledon.</p> <p>-Dicotyledons store their food in the cotyledon while monocotyledons store their food in the endosperm.</p> <p>-Dicotyledons undergo epigeal germination while monocotyledons undergo hypogeal germination.</p>	P4
25	<p>What do you understand by the term Implantation.</p> <p>This is the attachment of a foetus to the uterus walls.</p>	P6
26	<p>Give any one part of the body which protects the delicate parts of the body.</p> <p>-Skull</p> <p>-Brain</p> <p>Related content</p> <p>A skeleton is the structure that supports the body of an animal.</p> <p>Types of skeletons</p> <p>-Endo-skeleton</p> <p>This is the type of skeleton found inside the body of an animal.</p> <p>-Exo-skeleton</p> <p>This is the type of skeleton found outside the body of an animal.</p> <p>-Hydrostatic skeleton</p> <p>A hydrostatic skeleton is a type of skeleton where the body of an animal is filled with fluids under pressure</p>	P7
27	<p>Define a foreign body.</p> <p>This refers to materials or things which enter our bodies accidentally and cause harm.</p> <p>Related content</p> <p>Examples of foreign bodies</p> <p>-Beans in the nose</p> <p>-Maize in the nose</p> <p>-Beans in the ear</p>	P4
28	<p>What causes Hepatitis B?</p> <p>It's caused by Hepatitis B virus</p> <p>Related content</p> <p>A vector is an organism which spreads disease causing germs.</p>	P5
29	<p>How do fungi reproduce?</p> <p>Fungi reproduce by means of spores</p>	P5
30	<p>How are canines different from incisors in terms of their function?</p> <p>Canines are used for tearing food while incisors are used for cutting food.</p> <p>Related content</p> <p>These are types of teeth in humans</p> <p>-Incisors</p> <p>-Canines</p> <p>-Molars</p> <p>-Premolars</p>	P4
31	Which type of energy is possessed by water in the reservoir?	P5

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	<p>It's potential energy</p> <p>Related content</p> <p>All in motion bodies poses kinetic energy</p> <p>All bodies at rest/ in one position poses potential energy</p>	
32	<p>Name the type of electricity which is generated by coal.</p> <p>That's thermal electricity.</p>	P7
33	<p>State any one importance of valves found in the veins.</p> <p>These valves prevent the back flow of blood.</p>	P5
34	<p>Give any one example of abiotic environment</p> <ul style="list-style-type: none"> -The sun -Water -Air -Animals -Soil <p>Related content</p> <p>Interdependence refers to the way things in the environment depend on each other.</p> <p>Ways how animals depend on plants</p> <ul style="list-style-type: none"> -Animals get food from plants -Animals get oxygen from plants -Some animals use animals use plants as their habitats <p>Ways how plants depend on animals</p> <ul style="list-style-type: none"> -Plants get carbon dioxide from animals -Plants get manure from animals 	P7
35	<p>Define pruning.</p> <p>This refers to the removal of excessive branches from the plants.</p> <p>Related content</p> <p>Examples of garden tools used for pruning</p> <ul style="list-style-type: none"> -Secateurs -Shears -Pruning saw 	P7
36	<p>Name the structure below.</p>  <p>It is a stretcher</p> <p>Related content</p> <p>A stretcher is used to carry casualties who can't walk to the health unit or centre</p> <p>Note: We always put or pour cold water on burns to;</p> <ul style="list-style-type: none"> -Reduce heat in the skin -Reduce the risk of destroying body cells 	P4
37	<p>What name is given to a young rabbit?</p> <p>-Kit</p>	P4

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	<p>-Kitten</p> <p>Related content</p> <p>Diseases which affect rabbits</p> <p>-Coccidiosis</p> <p>-Scours</p> <p>-Pneumonia</p> <p>-Colds</p> <p>Qualities of a good Rabbit home (hutch)</p> <p>-It should be strong enough to keep them from predators.</p> <p>-It should always be kept clean</p> <p>-It should not leak on a rainy day</p> <p>-It should be raised from the ground to avoid rabbits being eaten by dogs.</p>	
38	<p>Suggest any one characteristic of swimming birds.</p> <p>-They have webbed feet which acts like paddles</p> <p>-They have broad breast bone</p> <p>-Their skin has many oil glands which produce oil to protect their bodies against water</p> <p>-They have broad curved beaks which help them to sieve food from mud</p> <p>Example of flightless birds</p> <p>-Emu</p> <p>-Kiwi</p> <p>-Ostriches</p> <p>Characteristics of flightless birds</p> <p>-They have bone marrows which increase the density of their bodies</p> <p>-They have weak and small wings compared to their body size</p> <p>-They run very fast</p> <p>Note: An Ostrich is the fastest flightless bird in running</p>	P6
39	<p>Outline any one example of constrictors.</p> <p>-Python</p> <p>-Anaconda</p> <p>-Boa constrictor</p> <p>Related content</p> <p>Examples of lizards</p> <p>-Geckos</p> <p>-Chameleon</p> <p>-Monitor lizards</p> <p>-Iguana lizards</p>	P6
40	<p>Mention any one advantage of traditional bee hive</p> <p>-They are easy to make</p> <p>-They are made from locally available materials</p> <p>-They are cheap to maintain</p> <p>Related content</p> <p>Disadvantages of traditional bee hives</p> <p>-It's easily destroyed</p> <p>-Not easy to inspect</p> <p>-Lasts for time</p>	P7

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-honey is not always clean

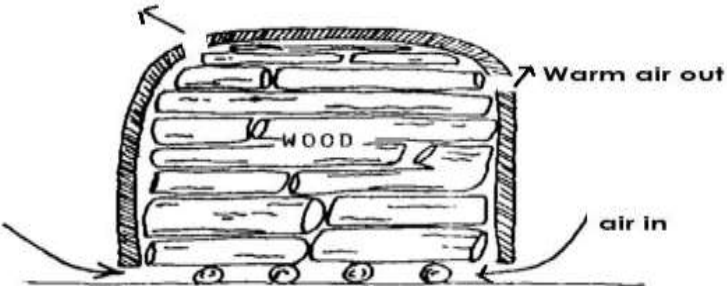
Note: Sections of a bee hive

(a) **Broad chambers:** where queen bee lays it's eggs

(b) **Queen excluder:** prevents the queen from entering the honey chamber

(c) **Honey chamber:** This is where the worker bee keeps the honey

SECTION B

41	<p>(a) Why is efficiency of a machine always less than 100%? This is due to Friction</p> <p>(b) Calculate the efficiency of a machine whose effort is 30N and moved in a distance of 15m to over come a load of 120N through a distance of 3m. (2marks)</p> <p>Solution process</p> <p>Efficiency = $\frac{\text{work out put} \times 100\%}{\text{Work in put}}$</p> <p>Efficiency = $\frac{(\cancel{120\text{N}} \times \cancel{3\text{m}}) \times 100\%}{\cancel{30} \times \cancel{15\text{m}}}$</p> <p>Efficiency = $\frac{4 \times 1 \times 100}{5}$</p> <p>= $\frac{(400)}{5}$</p> <p>Efficiency = 80%</p>	P7
42	<p>Study the diagram below and answer the questions below.</p>  <p>(a) Why is the heap of wood covered with soil? To limit the supply of oxygen</p> <p>(b) How is charcoal obtained? By burning wood in limited supply of oxygen</p> <p>(c) What happens if wood is burnt in plenty of oxygen? Wood burns into ash</p> <p>(d) How does the cutting of wood for charcoal affects the environment?</p>	P7

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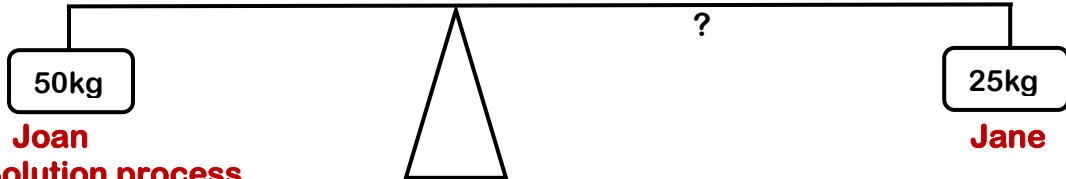
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	<p>-It leads to environmental degradation</p> <p>-It leads to low rain formation</p> <p>Related content</p> <p>A wood lot is a small garden where trees are planted for small scale production.</p> <p>Factors to consider when set up wood lot</p> <p>-The place should be near home / school</p> <p>-The place should be well drained</p> <p>-The place should have fertile soil</p> <p>Importance of wood lot</p> <p>-Trees in a wood lot provide shade to people</p> <p>-Trees in a wood lot provide fire wood</p> <p>-Trees in a wood lot provide fruits to people</p>	
43	<p>(a) Define primary health care (P.H.C).</p> <p>This refers to the essential health care where individuals, families and communities work together to solve their health problems</p> <p>(b) Write down any two elements of P.H.C (Primary Health Care).</p> <p>-Personal hygiene</p> <p>-Water and sanitation</p> <p>-Immunisation</p> <p>-Food and nutrition</p> <p>-Family planning</p> <p>-Health education</p> <p>(c) State any one principle of P.H.C.</p> <p>-P.H.C services should be available</p> <p>-P.H.C services should be affordable</p> <p>-P.H.C services should be acceptable</p> <p>-P.H.C services should be accessible</p>	P4
44	<p>Define sound.</p> <p>Sound is the form of energy which is produced by vibration of an object.</p> <p>(b) Write any one factor which determines the pitch of sound.</p> <p>-Size of a vibrating object</p> <p>-Thickness of a vibrating object</p> <p>-Tension</p> <p>-Frequency</p> <p>-Volume</p> <p>(c) State the function of the following parts on the human ear.</p> <p>(i) Eustachian tube</p> <p>This equalises the air pressure between the middle ear and the atmosphere</p> <p>(ii) Auditory Nerve</p> <p>This carries electrical signals from the cochlea to the brain where they are processed and interpreted as sound</p> <p>Related content</p> <p>Percussion instruments are instruments which produce sound by vibration of their surface when hit</p>	P6

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	<p>Examples of percussion instruments</p> <ul style="list-style-type: none">-Drums-Thumb piano-Shakers-Xylophones-Rattles <p>String instruments are instruments which produce sound by vibration of their strings when plucked</p> <p>Examples of strung instruments</p> <ul style="list-style-type: none">-Guitar-Tube fiddle-Harp															
45	<p>Name the vector which spread typhus fever. It is caused by a Tick</p> <p>(b) Suggest any two signs of river blindness.</p> <ul style="list-style-type: none">-Bumps on the hips-Bumps on the legs-Itching skin rashes-Severe skin itching <p>Note: The germ which is carried by ticks to cause typhus fever is rickettsia</p> <p>(c) Mention the worm which causes bilharzia It's Schistosoma / blood fluke</p> <p>Related content Match the vectors to the disease they spread</p> <table><thead><tr><th>A</th><th>B</th></tr><tr><th>Vector</th><th>Disease</th></tr></thead><tbody><tr><td>Black fly</td><td>Rabies</td></tr><tr><td>Ticks</td><td>Bubonic plague</td></tr><tr><td>Lice</td><td>Relapsing fever</td></tr><tr><td>Fleas</td><td>River blindness</td></tr><tr><td>Dogs</td><td>Typhus fever</td></tr></tbody></table>	A	B	Vector	Disease	Black fly	Rabies	Ticks	Bubonic plague	Lice	Relapsing fever	Fleas	River blindness	Dogs	Typhus fever	P3
A	B															
Vector	Disease															
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46	<p>Joan is 50kg. she sits 4cm away from the fulcrum to balance with Jane who weighs 25kg on a see-saw. Use the diagram below to determine how far Jane sat.</p>  <p>Solution process $L \times L .A = E \times E .A$ $50 \times 4 = 20 \times h$</p>	P7														

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$$\frac{200}{25} = \frac{25}{25}$$

Note: Since Joan had 25kg more than Jane, so Jane had to sit far away from Joan twice.

$$4\text{m} + 8\text{m} = 12\text{m}$$

Jane sat 12m away from Joan

Note, Joan sat 8m away from the fulcrum. but our question required from joan.so the teacher should mark 12m in the interest of the question

(b) Calculate the work done by a boy who carries a bucket of water in a distance 20m. If the box has mass of 20kg.

Solution process

Work done = Force x distance

But we don't have Force, so to get force, we shall multiply as below.

$F = \text{mass} \times \text{gravity}$ (gravitational force (10m/s^2))

$$F = M \times g$$

Mass(20kg)

Gravity(10m/s^2)

$$M \times g = 20 \times 10 = 200\text{N}$$

Force is measured in new tone

Work done = force x distance

Since our force = 20N and distance =20m

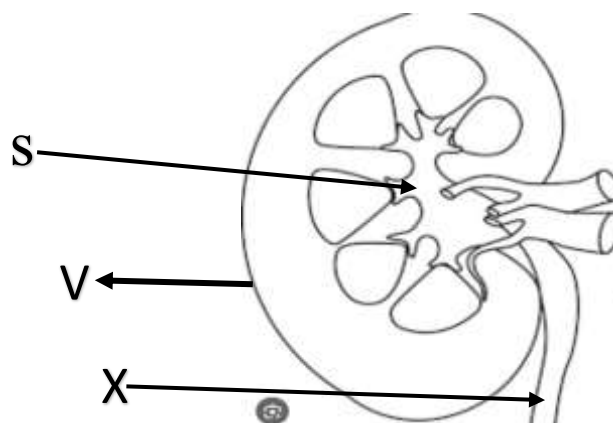
$$Wd = 200 \times 20$$

Work done = 4000 Joules

The work done by the boy will be 4000Jouels

47 Study the diagram below and answer the questions that follows.

P7



(a) Name the part marked

X – Ureter

V – Renal artery

(b) What is the function of the part marked;

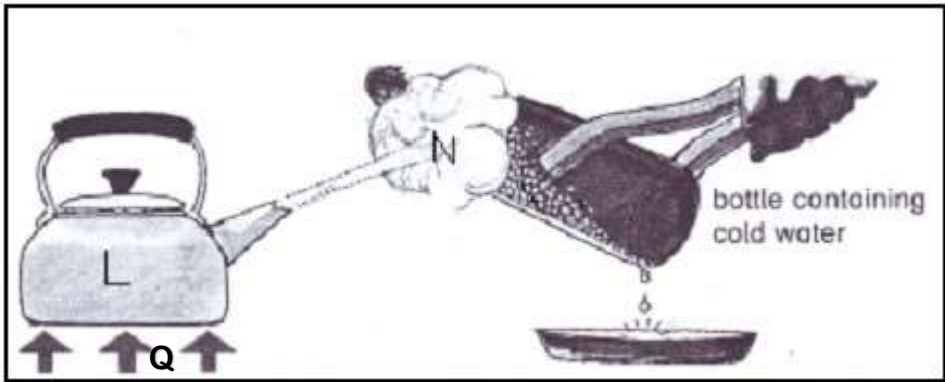
V? This part transports oxygenated blood from the heart to the kidney

S? Part marked “S” is where urine collects before it's taken to the urinary bladder

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	<p>Related content Excretion is the removal of waste products from the body through excretory organs The sphincter muscles are used to control the opening and closing of the urinary bladder Diseases and disorder of urinary system -Bilharziasis -Gonorrhoea -kidney stones -Nephritis or inflammation</p>	
48	<p>(a) Mention any two poisonous substance which are found in tobacco -Tar -Nicotine (b) Suggest any two effects of smocking to an individual. -It causes Lung cancer -It causes Emphysema -It worsens the condition of patients suffering from tuberculosis and asthma -It leads to family neglect if they are not smokers Related content Smoking is the act of inhaling smoke from a burning plant material Reasons why do people smoke -For socialisation -For passing time -To feel mature -Due to addiction</p>	P6
49	<p>Use the diagram below to answer the questions that follows</p>  <p>(a) What process is taking place at L? The process taking place at L is evaporation (b) What is the importance of features marked Q. Feature marked Q is used to heat the water in the kettle to cause evaporation (c) What type of rainfall is described above?</p>	P3

	<p>The type of rainfall is convectional rainfall</p> <p>(d) Give the reason to support your answer in C above.</p> <p>This is because convectional rainfall is received around water bodies and the kettle is now working like a water source / body</p>	
50	<p>(a) Define the term sexual deviation.</p> <p>These are abnormal sexual practices done by people for sexual satisfaction</p> <p>(b) Write down any two examples of sexual deviations you know.</p> <ul style="list-style-type: none"> -Oral sex -Homosexuality -Masturbation -Necrophilia <p>(c) What scientific term is used to mean the feeling of sexual attraction for dead body?</p> <p>That's Necrophilia</p>	P6
51	<p>If Wagonero heard a gun shot sound four seconds. How far was the firing point?</p> <p>Solution process</p> <p>Distance = $\frac{\text{speed} \times \text{time taken}}{2}$</p> <p>Speed = 330m/sec</p> <p>Distance = $\frac{(330\text{m/sec} \times 4\text{seconds})}{2}$</p> <p>Distance = $\frac{(1320)}{2}$</p> <p>Distance = 660metres</p> <p>The firing point was 660m away from Wagonero</p>	P6
52	<p>(a) What is fainting?</p> <p>This refers to a situation when one lacks consciousness for a short period of time</p> <p>(b) State any one cause of fainting.</p> <ul style="list-style-type: none"> -Low blood supply to the brain -Low blood flow to the brain <p>(c) Suggest any one condition that can lead to fainting.</p> <ul style="list-style-type: none"> -Use of alcohol -Hunger -Fear -Pain <p>(d) Why are legs of a person who has fainted raised higher than the head?</p> <ul style="list-style-type: none"> -To increase blood supply to the brain -To speed the flow of blood to the brain 	P6

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53	<p>(a) Apart from brushing our teeth, name any other way of cleaning our teeth. Flossing the teeth</p> <p>(b) What does the term flossing mean? Flossing is the process of removing plaque and bits of food that forms between the teeth using a floss</p> <p>(c) Outline any two diseases which affect the teeth -Dental cavity -Dental plaque -Gum diseases</p>	P4
54	<p>(a) Of what importance are root nodules to soil? Root nodules contain nitrogen fixing bacteria which add nitrogen to the soil.</p> <p>(b) Land harrowing is the breaking down of big lumps of soil which are left after ploughing</p> <p>(c) Describe the farm practice in the diagram.</p> <div data-bbox="646 749 941 1037" data-label="Image"> </div> <p>It is called propping Related Content Propping is the providing of support to plants with heavy bunches or branches using forked stake or pole. Examples of plants that can be propped. Bananas Coffee Guavas Avocado</p> <p>(d) State any one advantage of plants training. -Plants training make harvest easy -Plants training makes spraying easy -Plants training makes pruning easy -Plants training improves crop yielding Related content Plants training is a way a plant is made to grow in a certain direction and shape. Methods /ways of plants training Staking Trellising</p>	P4

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	propping	
55	<p>(a) What does the term Agro-forestry mean This refers to the growing of crops, trees and rearing animals on the same piece of land.</p> <p>(b) State any two importance of Agro-forestry.</p> <ul style="list-style-type: none"> -The farmer gets double income -Animals get oxygen from trees and crops -Trees and plants get manure from the animals -Crops with weak stems get support from plants -Trees help to purify air -Trees help to control soil erosion -Trees protect some crops from strong wind <p>(c) How do trees purify air in the environment?</p> <ul style="list-style-type: none"> -Trees consume carbon dioxide from the environment -Trees use carbon dioxide from environment <p>Related content</p> <p>How do trees control soil erosion?</p> <ul style="list-style-type: none"> -Tree roots bind soil particles -Tree leaves prevent direct rain drops <p>Factors considered when choosing a garden for crops and tree growing</p> <ul style="list-style-type: none"> -The soil should be well drained -The garden should be near the main road -The garden should be near the home 	P7

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