

## THE DREAM EDUCATION CONCERN

"Quest for excellence"



## **PRIMARY SEVEN PLACEMENT SET- 1 -2025**

INTEGRATED SCIENCE OFFICIAL MARKING GUIDE



A PRODUCT OF THE DREAM EDUCATION CONCERN REACH US ON 0764873958/0778069610/0759380519 FOR ALL EXAMINATIONS FROM BABY TO P.7

THE DREAM PUBLISHERS OF QUALITY ASSESMENTS, WORKBOOKS, COMPANION BOOKS, PLE REVISIONBOOKS, HOLIDAY PACKAGES, TEACHER'S TRAINING, CUSTOMISED HOLIDAY PACKAGES, REPORT CARD PRINTING AND OFFLINE SCHOOL MANAGEMENT SYSTEM

**TURN OVER** 

# SECTION A (40 MARKS)

NO	RESPONSE AND RELATED CONTENT	CLASS	TOPIC	TERM
1	Give the meaning of the term brooding.	P5	KEEPING	1
	Brooding is the giving of special care to chicks below eight weeks.		OF POULTRY &	
	Related content		BEES	
	Types of brooding		DEEG	
	-Natural brooding			
	-Artificial brooding			
	Natural brooding			
	Natural brooding is a method where a mother hen takes care of her			
	chicks			
	Artificial brooding			
	Artificial brooding is a method where chicks are kept in a special place			
	called a brooder			
	A brooder			
	A brooder is a special structure where chicks below 8weeks of age are			
	kept and cared for			
	Advantages of Natural brooding			
	-Natural brooding is cheap to farmers			
	-The hen looks or food from the environment			
	-Toe pecking is reduced in chicks because they move with their mother			
	-It saves the farmer from buying artificial brooder			
	-The hen provide security for the chicks			
	Disadvantages of Natural brooding			
	-It cannot be used on large scale			
	-Chicks are eaten by wild animals like kites, eagles and cats since they			
	just move with the mother			
	Advantages of Artificial brooding			
	-Many chicks are kept at ago			
	-Chicks are protected from predators			
	-It can be used for commercial purpose			

	-It is easier to feed chicks from one place			
	Disadvantages of Artificial brooding			
	-It is expensive to buy feeds for chicks			
	-The chicks need constant and special person to take care of them			
	-It needs constant supply of warmth which can be expensive			
	Types of brooders			
	-Kerosene /paraffin brooder			
	-Charcoal brooder			
	-Infrared lamp brooder			
	Reasons for feeding chicken			
	-To enable them produce good meat			
	-To make them grow fast and healthy			
	-To enable them lay good number of eggs			
	Classes of a balance diet in poultry feeds			
	Carbohydrates			
	This gives energy to the body of the bird			
	Proteins			
	This promotes growth and fattening and it's got from soya beans,			
	insects, ground nut etc.			
	Fats			
	It gives more energy and heat to the birds			
	It's got from ground nuts, peas etc.			
	Mineral salts			
	Calcium and phosphorous, it helps in making of hard eggs			
2	State any one example of pouched mammals.	P6	CLASSIFIC	1
	Kangaroo		ATION OF	
	Wallabies		LIVING THINGS	
	Koala bears		11111400	
	Related content			
	Pouched / marsupials mammals			
	These are mammals which have a pouched pocket on their abdomen			
	Note: The word marsupials means a pouch / bag			

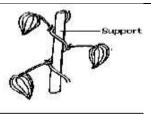
3	Flying mammals Bats are the only flying mammals Note: The common characteristic of all flying mammals is that they fold attachment to the fore limbs which act as wings Types of bats -Fruit eating bats -Insect eating bats -Blood sucking bats (vampire bats) -Bats are nocturnal animals which are dormant during day time and active at night -Echoes are used by bats to find their way out Note: Nocturnal animals are animals which are only active at night and dormant during day time while diurnal animals are animals which are active during day time and dormant at night Sea mammals (Cetaceans) Cetaceans are animals which live in seas Characteristics of sea animals -They don't have gills but breathe through lungs -They give birth to live young ones -They have a large area of fats under the skin called blubber which keeps them war  Convert 25°C to Fahrenheit. Solution process Formula =  °F = (C x 9) + 32 5 What we have	P5	MATTER & ENERGY	2
	$^{\circ}F = (C \times 9) + 32$			

	 1	
$^{\circ}F = (C^{\circ} \times 9) + 32^{\circ}$		
$^{\circ}F = (25 \times 9) + 32^{\circ}$		
$^{\circ}F = (\frac{5}{25}^{\circ} \times \frac{9}{9}) + 32^{\circ}$		
<b>1 1 1 1 1 1 1 1 1 1</b>		
$^{\circ}F = (5 \times 9) + 32^{\circ}$		
°F = 45 + 32 °F = 77°		
Related content		
Let's prove by converting 77°F to °C as below		
Use the formula below		
$C^{\circ} = (^{\circ}F - 32) \times {}^{5}/_{9}$		
What we have		
$\mathbf{F} = 77^{\circ}$		
C = ?		
Let's substitute as below using the formula		
$C^{\circ} = (^{\circ}F - 32) \times \frac{5}{9}$		
$\mathbf{C}^{\circ}$ - (77° - 32) x $\frac{5}{9}$		
Arrange vertically to subtract as below		
7 7°		
- 3 2 - 4 5°		
$\mathbf{C}^{\circ} = (45)^{5}/_{\circ}$		
$C^{\circ} = (45)^{5}/_{9}$ $C = (45) \times \frac{5}{4}$		
$C^{\circ} = (5 \times 5)$ $C^{\circ} = 25^{\circ}C$		
Therefore 77°F will equal to 25°C		
Therefore our answer is correct because it has gone back to our original		
question		

		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	Burning			
	Burning is a chemical reaction in which heat and light are produced			
	Note: The gas which is needed for burning to take place is oxygen			
	The gas which is needed for stopping / putting off burning is carbon			
	dioxide and for this reason, it is used in fire extinguishers to put off fire			
	Methods used to put off fire			
	-Using fire extinguishers			
	- Using dust and sand			
	-Using water (but the one caused by petrol)			
	-Rolling oneself on the ground			
	Reasons why water is not recommended to put off electric and petrol			
	fire			
	-Petrol is less dense than water so it floats on water and fire continues			
	burning			
	-Water is good conductor of electricity so one can get serve shock			
4	What is the main function of the large intestines is the digestive system	P5	DIGESTION	3
	of man?			
	To absorb water			
	Related content			
	Functions of different parts of the digestive system			
	(a) The Duodenum			
	It's first section of small intestines			
	It receives bile and pancreatic juice through the pancreatic duct			
	(b) Ileum			
	It's where digestion of food ends			
	It's where absorption of food takes place			
	Note: The large intestine absorbs water and mineral salts from the			
	remaining indigestible			
	(c) The stomach			
	Its where we find itch (acid) and it's use is to kill the germs that escape			
	along with the food that we eat			

	It's whore disaction of proteins begins from being acted up on by the		
	It's where digestion of proteins begins from being acted up on by the		
	gastric juice enzymes		
	(d) Rectum		
	It keeps the undigested waste materials before they are passed out		
	Disorder of digestion		
	-Constipation		
	-Indigestion		
	-Vomiting		
	Causes of constipation		
	-Lack of roughages in the diet		
	-Drinking little water		
	-Lack of physical exercise		
	How to prevent constipation		
	-Eat fruits and vegetables		
	-Drink water before and after eating food		
	Causes of indigestion		
	-Stomach ache		
	-Heart burns		
	-Tiredness / fatigue		
	Diseases of the digestive system		
	-Appendicitis		
	-Cholera		
	-Typhoid		
	-Dysentery		
	Note: Please help learners to know how to identify the diseases of		
	digestive system and the disorder of digestion since majority tend to		
	misunderstand what to answer where		
5	Give any one reason why clay soil has the highest water retention	SOIL	2
	capacity?		
	-Clay soil particles are very small and tightly packed, which allows it		
	retain water well		
	-Clay soil has small air spaces in between		

-Clay soil has fine particles that reduce air spaces			
Related content			
-Soil PH is the degree of acidity or alkalinity of soil			
-Soil structure is the arrangement of particles in the soil			
Characteristics of clay soil			
-It has the smallest particles			
-It is sticky			
-It has little humus			
-It drains water slowly			
Note: Clay soil is the best soil for pottery work / modeling			
Characteristics of sand soil			
-It has the biggest particles			
-It has rough particles			
-It drains water quickly			
Note: It is the best soil for building			
Characteristics of Loam soil			
-It' a mixture of sand and clay soil			
-It has a lot of humus			
-It is dark in colour			
Note: Loam soil is the best for crop farming because it is well aerated			
Weathering is the process by which rocks break down into small			
particles to form soil			
Soil profile			
Is the vertical arrangement of soil layers from the top to the bottom			
Agents of weathering			
-Animals			
-Earth quakes			
-Plants			
-Flowing water			
-Strong wind			
Name the method of climbing by plants shown below	P4	PLANT LIFE	1



### **Twining**

#### **Related content**

#### **Stems**

These are parts of the flowering plant on which leaves and fruits are born

#### **Functions of stems to plants**

- -They support the structure of the shoot i.e. branches, flowers etc.
- -They conduct food from leaves to other parts of a plant
- -Green stems help in the process of photosynthesis
- -Some stems store food for the plant

### **Example of stems which keep food for the plants**

- -Sugar cane
- -Yams
- -Finger plant
- -Irish potatoes

#### Uses of stems to man

- -Many stems are used as food
- -Some stems are used as local medicine
- -Some stems are used to make poles
- -Some stems are source of timber

### Kinds / types of stems

- -Upright stems
- -Underground stems
- -Climbing stems
- -Creeping stems

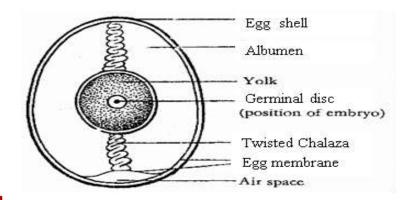
### Reasons why plants climb others

-Plants climb others to get sunlight

## -Plants climb others for support -To expose their fruits for seed dispersal -To get enough air Ways how plants climb others -By use of tendrils -By thinning eg some yams some beans -By use of hooks and thorns -By clasping **Creeping stems** These are stems which run along the ground **Examples of plants with creeping plants** -Water melons - Pumpkins -Sweet potatoes -Straw berry -Morning glory **Bulbs** A bulb is an underground stem **Examples of bulbs** -Onions -Garlic -Leak -Shallots Structure of a bulb terminal bud foliage leaves scale leaf storage or fleshy leaves axillary or. lateral bud stem adventitious roots

7	Give the meaning of a seed bed.	P4	PLANT LIFE	1
	A seed bed is a large piece of land where seedlings are planted for			
	further growth			
	Related content			
	Hardening off			
	Is the making of seeds get used to harsh climatic conditions			
	How is hardening off done			
	-Reduced water			
	-Removing thatched roof/ shelter			
	Note: Hardening off help to expose seedlings to sunlight to make their			
	own food			
	Transplanting			
	Transplanting is the transfer of seedlings from the Nursery bed to the			
	main garden or seed bed			
	Reasons why transplanting is done in the evening			
	-The weather is cool in the evening which help seedlings not to lose then			
	they are able to absorb which prevents wilting			
	-Evening transplanting help plants to have long hours of the night which			
	helps roots to absorb enough water			
	Note: Summary of the above explanation			
	To prevent wilting of seedlings caused due to excess transpiration			
	Ways of caring for crops			
	-Thinning			
	-Mulching			
	-Watering			
	-Gap filling			
	-Pruning			
	-Manuring			
8	Name the structures which are used on kitchens and factories to let the	P5	HEAT	2
	smoke out.		ENERGY	
	Chimney			
	Related content			

I I	Ventilation Ventilation is the circulation of air / evolution of gases			
	Ventilation is the circulation of air / exchange of gases Importance of different structures on a house			
Ш	Ventilators			
	They let out warm air			
	Windows			
	They let in fresh air Doors			
	They let in fresh air			
	Importance of heat transfer by radiation in the environment			
	-Radiation is used while roasting meat, fish and chicken in an oven			
	-It enables us to warm our bodies while using heaters or warmers			
	-Heat from the fire reaches our bodies by radiation			
	Examples of radiation in nature			
	-Heat from the sun reaches us by radiation			
	-Heat from fire reaches the maize being roasted by radiation			
	Importance of heat transfer by conduction			
	-Conduction of heat enables us to iron our clothes			
	-It helps us to cook using saucepans			
	-It is used in smelting of metals			
	-It is used in cutting and welding of metals			
9	State the reason why the egg shell is porous.	P6	CLASSFICA	1
	To allow gaseous exchange		TION OF LIVING	
	Related content		THINGS	
	How the egg shell is adopted to it's function of gaseous exchange		11111100	
	It is porous			
	Reasons why layers should be given mash (feeds) rich in calcium			
	To lay hard shelled eggs			
	Functions of different parts of an egg			



#### Egg shell

It protects the inner parts of an egg

#### Air space

- -It keeps oxygen for the embryo
- -It supplies oxygen to the embryo

### Egg yolk

It provides proteins to the embryo

Albumen (egg white)

It provides water and proteins to the embryo

### **Embryo**

It develops into a young bird

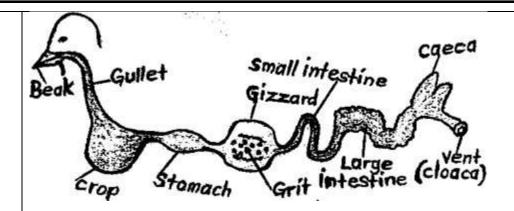
#### **Germinal disk**

It develops in to an embryo after fertilization

Note: An embryo is found into a fertilized egg while germinal disk is

found in unfertilized egg

The digestive system of a bird



#### Beak

- -It picks food
- -It passes food to the crop

#### Crop

- -It stores food for a short time (it is used for temporary storage)
- -It moistens and softens food
- -It produces crop milk to feed chicks eg in pigeons

Note: Things which happen to food while in the crop of a bird

- -Food is moistened
- -Food is softened

### Examples of birds that do not have a crop

- -Owl
- -Geese
- -Button quail

#### **Gizzard**

It crushes or grinds food

How is a gizzard adopted to its function

It has grit/stones which helps in crushing of food

Note: Which parts of the digestive system of a human being does the same function as the gizzard in a bird

-Teeth

Reason for the above answer (teeth) is that both are used in crushing food Grit They crush food into small particles. So they are small stones found in the gizzard How is the gizzard able to withstand the grit? -It has thick muscular walls Small intestines / ileum -It is where digestion of food ends -It is where food absorption takes place Main process that takes place in the small intestines -Food absorption -Food digestion  10 Identify the type of leaf venation below.  P4 PLANT LIFE 1  Network leaf venation Related content Leaf venation This is the arrangement of vein in the leaf Types of leaf venation -Network venation -Network venation Network venation Network venation Network venation This is the type of leaf venation where a leaf makes a net like structure					
Network leaf venation Related content Leaf venation This is the arrangement of vein in the leaf Types of leaf venation -Network venation -Parallel venation Network venation Network venation		food Grit They crush food into small particles. So they are small stones found in the gizzard How is the gizzard able to withstand the grit? -It has thick muscular walls Small intestines / ileum -It is where digestion of food ends -It is where food absorption takes place Main process that takes place in the small intestines -Food absorption			
Network leaf venation Related content Leaf venation This is the arrangement of vein in the leaf Types of leaf venation -Network venation -Parallel venation Network venation Network venation	10		P4	PLANT LIFE	1
-Parallel venation Network venation		Related content Leaf venation This is the arrangement of vein in the leaf Types of leaf venation			
Network venation					
I his is the type of leaf venation where a leaf makes a net like structure					
The feature special control of the feature of the f		This is the type of leaf venation where a leaf makes a net like structure			

**Note:** Network venation is mostly characterized by dicotyledonous plants

**Examples of plants with network leaf venation** 

- -Bean plants
- -Soya
- -Black jack plant
- -Pease
- -Mango plants
- -Ground nuts

Parallel leaf venation

This is the type of leaf venation where the veins run from the leaf stalk to the apex of the leaf parallel to another

Note: The veins in this type of venation do not meet and hence the name parallel venation

Parallel leaf venation is characterized mostly in monocotyledonous plants

**Examples of plants with parallel leaf venation** 

- -Maize plants
- -Sugar cane
- -Banana plants
- -Sorghum

Types of leaves

- -Compound leaves
- -Simple leaves

Simple leaves

These are leaves with one leaf blade on the leaf stalk

**Characteristics of simple leaves** 

-They have one leaflet on the stalk

-They have one leaf magine			
-They have one leaf stalk			
Mention any one characteristics of testudines	P6	CLASSFICA	
-They have hard shells		TION OF	
-They protect the animal from predators		LIVING	
-They have four limbs		THINGS	
-They have very long life span			
-Tortoises can live between 150 – 300years			
-Turtles live for about 20 – 40years			
Related content			
Examples of testudines			
-Tortoise			
-Turtle			
-Terrapin			
Note: Terrapin are turtles that live in fresh and salty water			
Testudines			
These are reptiles which have hard bony shells			
How do tortoise and terrapin protect them selves			
By hiding in the shell			
What do we call the upper and lower shells of turtles and turtoises			
Upper shell is called – Carapace			
Lower shell is called – Plastron			
Food for tortoises and turtles (testudes)			
-Insects			
-Small animals			
-Vegetation			
Mouting			
This is the shedding off the outer skins in reptiles			
Reasons why reptiles moult			
To grow / increase in size			
How do snakes hear / detect movement / vibration			
Snakes hear vibration with the help of inner ear inside their jaw bones			

			T	
	Reasons why snakes move while bringing out their forked tongue			
	-For smelling			
	Food for snakes			
	-Small insects			
	-Eggs			
	Groups / classes of snakes			
	-Venom snakes			
	-Non-venom snakes			
	-Constrictors			
	Venom snakes			
	These are snakes which have venom			
	Examples of venom snakes			
	-Cobra			
	-Death adder			
	-Coral snakes			
	-Water moccasins			
	Characteristics of venom snakes			
	-They have triangular heads			
	-They have venom			
	-They have a slit –like (elliptical) eye pupil			
12	Give any one cause of soil exhaustion.	P5	SOIL	2
	-Mono cropping			
	-Over cultivation			
	-Leaching of mineral salts			
	-Over grazing			
	-Soil erosion			
	-Over use of soil fertilizers			
	Related content			
	Soil exhaustion			
	Soil exhaustion is the loss of soil fertility			
	Leaching			

	Leaching is the washing of mineral salts from the upper layers to the			
	lower layers of the soil			
	Causes of leaching			
	-Soil erosion			
	-Deep ploughing			
	-Floods			
	Soil conservation			
	Soil conservation is the maintenance of soil fertility			
	Methods of soil conservation			
	-By carrying out crop rotation			
	-By mulching the garden			
	-By growing legumes			
	-By afforestation			
	-By terracing			
	-Through contour ploughing			
	Intercropping			
	This is the practice of growing two or more crops on the same plot at the			
	same time			
	Ways how intercropping is important to soil			
	It prevents soil exhaustion when legumes are planted			
	Alley cropping			
	This is where food crops are grown between rows of trees			
	Bush fallowing			
	This is the practice of leaving the land to grow bushy for some time			
	Importance of bush fallowing			
	It helps the soil to regain its fertility			
13	State any one importance of keeping our bodies clean.	P4	PERSONAL	
	-To control the spread of germs		HYGIEN	
	-To remove dirt from the bodies			
	-To prevent bad body smell			
	-To be smart and healthy			
	-To prevent teeth diseases			

-To prevent skin diseases		
Related content		
Personal hygiene		
Personal hygiene is the general cleanliness of our bodies		
Parts of the body that needs proper cleaning		
-Fingers / finger nails		
-Hair		
-Face		
-The teeth		
-The skin		
Things that should be kept clean		
-Clothing		
-Beddings		
-Tooth brush		
-Shoes		
Ways of keeping our bodies clean		
-Bathing regularly		
-Washing clothes regularly		
-Ironing clothes and beddings regularly		
-Shaving over grown hair		
-Brushing the shoes regularly		
-Washing hands before eating or touching food		
Reasons why we wash our hands		
-To remove germs and dirt		
-To prevent diseases		
When do we wash our hands		
-Before preparing food		
-Before serving food		
-After visiting the latrine		
Items used to keep our bodies clean		
-Soap		
-Water		

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	-They have streamlined bodies to overcome viscosity in water			
	-Their bodies allow eyes and nostrils to be outside water			
	Importance of reptiles to man			
	-Some reptiles attract tourists eg crocodiles			
	-Some reptiles eat insect pests eg chameleon			
	-Some reptiles have skins which can be sold for income			
	-They provide skins for leather industries			
	-Some reptiles are source of food to man			
	Note the following terms			
	Oviparous animals			
,	These are animals which lay eggs			
1	Viviparous animals			
	These are animals which produce living young ones			
	Viviparous			
	These are animals that give birth to live young ones from the eggs that			
	hatch inside their bodies			
	Terrestrial animals			
	These are animals which mainly live on land			
	Aquatic animals			
	These are animals which live mainly in water			
16	Give the importance of an ovipositor to a queen bee.	<b>P</b> 5	KEEPING	1
	To lay eggs		OF POULTRY &	
	Related content		BEES	
	Apiculture		BLLO	
	Apiculture is the keeping and management of bees			
	An apiary is a farm of bees OR is a place where many bee hives are kept			
	An apiarist is a person who keeps bees			
	Reasons why people keep bees			
	-Bees pollinate crops for easy fertilization			
	-Bees provide honey to man			
	-Honey from bees can be sold to get money			
	-Honey is used to sweeten bread and tea			

-Bees provide man with bee wax		
-Honey is a source of carbohydrates to man		
Types of bees in a hive		
-The queen bee		
-The drone bee		
-The worker bee		
a) The queen bee		
-It lays eggs		
-It mate with a drone once in a life time		
Characteristics of a queen bee		
-It has long abdomen		
-It is the largest bee in the hive		
-It has a sting		
Note: The queen feeds on royal jelly by the nurse bee		
b) Worker bee		
These are sterile female bees in a hive		
Note: Sterile bees are unable to produce or lay eggs		
Characteristics of worker bees		
-They are many in number		
-They cannot lay eggs and do not have the ovipositor		
-They have stings used for defence		
-They have a pollen basket on their hind legs for carrying pollen grains		
-They are sterile bees because their reproduction organs and under		
developed		
Duties of a worker bee		
-They fan the hive to keep it cool		
-They feed the brood (grub)		
-They feed the queen bee on royal jelly		
-They build the hive using the wax		
-They collect the nectar, water, and pollen grains		
c) Drone bee		
The major function of the drone bee is to mate with the queen bee		

	Note: Reasons why the drone bee dies after mating with the queen bee			
	Ejaculation kill the drone because it basically eviscerates their abdomen			
	The wedding / mating / maiden fight			
	This is a fight during which the drone bee mates with the queen bee			
17	State the importance of the septum of the human heart.	<b>P</b> 6	THE	1
	To prevent mixing of de-oxygenated and oxygenated blood		CIRCURAT	
	Related content		ORY SYSTEM	
	Reasons why blood goes to the lungs		STOTEW	
	-To pick oxygen			
	-To be oxygenated			
	-To drop carbon dioxide			
	Functions of other parts of the heart			
	Pulmonary vein			
	It carries oxygenated blood to all the body parts			
	Aorta			
	It carries oxygenated blood from the heart			
	Valves			
	They prevent the back flow of blood			
	Semilunar valves			
	They prevent the back flow of blood from the arteries into the ventricles			
	Reasons why the left ventricle is thicker walled than the right ventricle			
	-It pumps blood at a higher pressure than the right ventricle			
	Heart beat			
	This is the contraction and relaxation of the heart			
	Pulse			
	Is the number of times the heart beats per minute			
18	Give any one reason why the burnt part of the body is always put in cold	P4	ACCIDENT	3
	water.		S	
	-To reduce the burning pain			
	-To reduce heat from destroying the body cells			
	-To cool down the temperature of the burnt part			
	Related content			
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An accident is the sudden happening that can cause harm or death to the	
body	
A casualty is a person who has been injured in an accident Causes of traffic road accidents	
-Over loading -Unskilled drivers	
-Careless driving -Bad weather driving	
-Failure to follow road signs	
Reasons why we give first aid	
-To stop bleeding	
-To stop bleeding -To reduce pain	
-To save life	
Poisoning	
This is the act of taking harmful or toxic substance in the body	
Poison	
Poison is any substance that can cause harm when taken into the body	
Examples of poisonous substances / poison	
-Jik	
-Paraffin	
-Herbicides	
-Petrol	
-Expired drugs	
-Acid	
-Insecticides	
Causes of poisoning at home and schools	
-Keeping drugs where children can reach	
-Ignorance	
-Poor storage of drugs	
-Keeping poison in soda bottles	
-Taking over dose	
-Eating expired tinned food	

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	-Mixing insecticides before children			
	Ways of preventing poisoning			
	-Keep drugs out of reach of children			
	-Dispose expired drugs			
	-Avoid drug misuse			
	-Clearing bushes that hide snakes			
	-Avoid eating expired packed food			
	-Buy drugs from recommended pharmacies			
19	Give any one way how the human body acquire artificial immunity.	P5	<b>IMMUNISAT</b>	3
	-By immunization		ION	
	-Through injection of prepared antibodies into the body			
	Related content			
	Immunity			
	This is the ability of the body to resist diseases			
	Types of immunity			
	-Natural immunity			
	-Artificial immunity			
	Natural immunity			
	Is the type of immunity that does not involve use of vaccines			
	Ways of acquiring natural immunity			
	-Through breast feeding			
	-After recovering from sickness			
	Reasons why it is dangerous to acquire immunity after recovering from			
	illness			
	It may lead death			
	Artificial immunity			
	This is the type of immunity that involves use of vaccines			
	Vaccines			
	These are medical drugs used for immunization			
	Importance of vaccines			
	They boast immunity			
	How do vaccines boast immunity			

	-Vaccines stimulates the production of antibodies			
	-They enable the body to produce antibodies			
	Methods of administering vaccines			
	-Oral method			
	-Injection method			
	Types of vaccines			
	-Killed vaccines			
	-Live attenuated vaccines			
	-Toxoid vaccines			
	Live attenuated vaccines			
	These are vaccines made from weakened live germs			
	Examples of attenuated vaccines			
	-Yellow fever vaccine			
	-Rotavirus vaccine			
	-Measles vaccine			
	-Oral polio vaccine			
	-BCG vaccine			
	-Chicken pox vaccine			
20	How does deforestation cause soil erosion?	P5	SOIL	2
	It leaves the soil bare exposing it to agents of soil erosion			
	Related content			
	Reasons why people carry out deforestation			
	-To get land for settlement			
	-To get land for farming			
	-For road construction			
	-For industrialization			
	-Due to charcoal burning			
	How does our stalking and grazing cause soil erosion			
	-Animals eat all the grass leaving the soil bare			
	-Animals carry soil in their hooves			
	Effects of deforestation			
	-It causes soil erosion			
				·

	-It leads to drought -It causes global warming -It destroys habitats for wild animals Note: Global warming is the constant rise in temperature world wide Ways or methods of controlling soil erosion -Bush fallowing -Cover cropping -Strip cropping -Agro forestry -Bundling -Mulching -Terracing -Reforestation -Contour ploughing Note: Bundling is the making of embankment on river banks to control soil erosion How do trees control soil erosion -Trees reduce the speed of wind -Trees act as wind breakers How does terracing control soil erosion -Terraces reduce the speed of flowing water			
21	State one reason why a mushroom is not called a plantIt has no chlorophyll while a plants has chlorophyll -Mushrooms feed on dead decaying matter while plants make their own food Related content  Parts of a mushroom and their functions  Cap / pileus Gills / lamellae	P6	BACTERIA & FUNGI	2

Fruiting body	Ring / annulus			
	Volva /cup			
Mycelium	——— hyphea			
Note: The parts of a mushroom	visible above the ground is called fruiting			
body				
The parts of a mushroom below	v the ground is called mycelium			
<b>Functions of its parts</b>				
Cap / pileus				
It protects the gills				
Gills				
They produce and store spore				
Stalk / stipe				
It holds the cap and the gills				
Ring				
It protects the mushroom when	n it's still young			
Hyphae	and the state of the state of			
They absorb food (Nutrients) fi	rom dead matter			
How does yeast reproduce				
Yeast reproduce by budding	colled sumace			
The enzymes found in yeast is Yeast spreads up the fermenta				
Conditions necessary for the g				
-Moisture	Towar or rungi			
-Warmth				
State the meaning of seed viab	ility	P4	PLANT LIFE	•
	eeds to germinate when all conditions are	•		
present	occo to gorimnate when an conditions are			
Related content				

## Conditions needed for germination to take place -Water Oxygen -Warmth How important / helpful are the conditions which must be present for germination to take place Water -It softens the testa / seed coat. -It dissolves the food for the embryo to use Oxygen Help the embryo to carry out respiration Warmth To encourage growth of anew cells Gives the enzymes necessary conditions needed to digest food for the embryo **Methods of planting** -Row planting -Broad casting **Row planting** This is the planting of seeds /seedlings in line Examples of seeds /seedlings planted using row planting -Beans -Ground nuts -Maize -Cotton -Sova beans Advantages of row planting -Few seeds are used -It is easy to weed the crops -Spacing in line help to control pests Disadvantages of row planting -It is tiresome / takes a lot of time

	-It wastes land			
	-It acquires a lot of skills			
23	Give the reason why a fish dies when removed from water.	P6	CLASSIFIC	1
	It lacks dissolved oxygen		ATION OF LIVING	
	Related content		THINGS	
	Reasons why the gill filaments are many in number / numerous		11111100	
	To increase the surface area			
	Uses of gill filament			
	For gaseous exchange			
	Adaptation of gill filaments to gaseous exchange			
	-They are numerous / many in number			
	-They are moist			
	-They have dense network of blood capillaries			
	The structure of a gill of a fish			
	Gill rakers  Gill rakers			
	Cill arch (aill bar)			
	Gill arch (gill bar) It supports the gill filaments and gill filaments			
	Gill rakers			
	-To trap solid materials from damaging the gills			
	-To filter food from water as it moves from mouth to the gills			
	How are fish with no swim bladders (cartilaginous fish) able to float on			
	water			
	They use their funs to float on water			_

	Examples of cartilaginous fish			
	-Shark			
	-Ray / sting ray			
	-Dog fish			
	-Skates			
	Why lung fish is called so?			
	It has gills and lungs			
	Examples of lung fish			
	-African lung fish / mud fish			
	-South American lung fish			
	-Australian lung fish			
	Reasons why lung fish take long to die when removed from water			
	-It can breathe through using a swim bladder			
	-It's swim bladder is modified into lungs for breathing			
	Reasons why lung fish produce mucus that dries into cocoon around it's			
	body			
	To survive drought			
24	Give one reason why DPT vaccine is given to babies at 6 weeks.	<b>P</b> 5	IMMUNISAT	3
	Babies are born with maternal immunity that lasts for six weeks		ION	
	Related content			
	Reasons why Tuberculosis (TB) common among AIDS patients			
	They have weak immunity / due to loss of immunity			
	How is smoking related to TB (tuberculosis)			
	Smoking worsens tuberculosis			
	Common signs in both TB and AIDs patients			
	-Chronic cough			
	-Loss of weight			
	-Severe sweating			
	Tetanus			
	It is caused by a bacteria found in soil			
	The bacteria enters our bodies through fresh cuts and wounds			
	Signs and symptoms of tetanus			

	-Stiffness of muscles			
	-Stiffness of the jaw			
	-The baby stops breast feeding			
25	Mention any one condition of proper storage.	P4	CROP	2
	-The grain should be stored when they are dry		GROWING	
	-Rat guards should be fixed on granary			
	-Stores should have good ventilation			
	-Foot crops should be dried first before storing them			
	-The roofs of the stores should not leak			
	Related content			
	Farm records			
	These are written information showing the different inputs and outputs			
	on a farm			
	Examples of records kept by crop farmers			
	-Planting records			
	-Harvesting records			
	-Sales records			
	-Pests and disease control records			
	Uses of farm records / importance of farm records			
	-Records help farmers to know whether they are making losses or			
	profits on a farm			
	-Records help farmers to budget for the farm			
	-Records help farmers to secure loans			
	-Records help farmers to avoid repeating mistakes			
	Changes in weather			
	Types of weather			
	-Rainy weather			
	-Windy weather			
	-Cloudy weather			
	-Sunny weather			
	Elements of weather			
	-Rain			

	-Cloud cover		1	
	-Sunshine			
	-Temperature			
	-Humidity			
	-Air pressure			
26	Identify any one advantage of strip grazing.	P6	CATTLE	2
	-Pasture is evenly used		KEEPING	
	-Diseases and pests are easily controlled			
	-Labor is reduced on farms			
	Related content			
	Strip grazing			
	This is where small sections called strips are created using temporary			
	electric wire to restrict the movement of animals			
	Disadvantages of strip grazing			
	-It's expensive to maintain			
	-Few animals are kept			
	Tethering method (use of ropes)			
	Is the system where animals are tied on the peg with the rope and			
	allowed to graze in the restricted area			
	Advantages of tethering method (use of ropes)			
	-It is cheap and appropriate to small scale farmers			
	-No fencing is required			
	Disadvantages of tethering method (use of ropes)			
	-Animals lack exercise			
	-Animals may be restricted to one type of grass			
	-Few animals can be kept			
	Free range system			
	This is the system in which animals are left to move and graze freely			
	Note: It's the commonest system in Uganda because its cheap			
	Advantages of free range system			
	-It's the cheapest method of feeding animals			
	-Animals get enough exercise			

	-Animals feed on variety of pasture			
	Disadvantages of free range system			
	-It is difficult to manage animals			
	-It requires a lot of land			
	·			
27	-Animals may stray and eat people's crops	P5	MEASURE	2
27	Calculate the volume of a stone of mass 48g and density 6g/cc	FS	MENTS	2
	Solution process		MEITTO	
	So density = mass			
	Volume			
	Whereas;			
	Density (d) = 6g/cc			
	Mass (m) = 48g			
	Volume (v) = ?			
	Let's substitute in as below using the formula $D = \underline{M}$			
	V			
	D = 6g/cc			
	M = 48g			
	V = ?			
	6 = 48			
	V			
	$\frac{6}{1} = \frac{48}{V}$			
	1^ V			
	We are to divide by the side which has the unknown after cross			
	multiplying as below			
	<u>6 = 48</u>			
	1 V			
	1(48) = (6V)			
	48 = 6V			
	6 6			
	V = 8cc			
	Related content			

#### **Densities of some substances**

Substances	densities
Gold	19.3
Mercury	13.6
Lead	11.3
Silver	10.5
Copper	3.9
Aluminum	2.7
Glass	2.7

Reasons why Aluminum is used to make bodies of aero planes

**Aluminum has low density** 

Behavior of objects when put in water

- -Floating
- -Sinking

**Floating** 

This is when objects remain on top of water

Note: Objects remain on top of water because they are less dense than water

Liquids that float on water

- -Kerosene
- -Petrol
- -Diesel
- -Lubricating oil
- -Cooking oil

Other objects which float on water

28	-Cork -Plastic cups and plates -Boats -Ice -Sponge -Papers Sinking objects These are objects that go to the bottom of water These objects are more dense that water Examples of sinking objects -Stones -Sand -Glass -Mercury -Metal rods State any one way how silting affects water bodies -Reduces the depth of water bodies -It leads to disappearance of water bodies -It leads to flooding of surrounding areas -Destroys habitats for aquatic life Related content Ways of controlling silting -Controlling soil erosion -A void cultivating near river banks -Protect vegetation cover around water bodies Silting Silting is the deposition of fire and other solid materials like soil particles	P6	RESOURCE S IN THE ENVIRONM ENT	2
	-A void cultivating near river banks -Protect vegetation cover around water bodies Silting			

Flowing water poses kinetic energy State any one reason why rusting is regarded as chemical change.	P.5	TYPES OF	2
-It is irreversible	1.5	CHANGES	
		IN THE	
-It is forms a new permanent substance Related content		<b>ENVIRONM</b>	
		ENT	
Rusting			
Rusting is a chemical process that causes a red or orange coating to			
form on the surface of metals			
Conditions needed / necessary for rusting			
-Oxygen			
-Moisture (water)			
How important is moisture in iron rusting			
It speeds up oxidation of iron			
How important is rusting			
It adds iron in the soil			
Disadvantages of rusting			
-It makes metals weak			
-It spoils the colour of metals			
-It makes sharp metals blunt			
-It makes bolts and nuts hard to drive			
Ways of preventing rusting and corrosion			
-By keeping metals in cool and dry places			
-By making alloys			
-By painting some metals			
Examples of metals that can rust			
-Iron			
-Steel			
Examples of metals which do not rust			
-Copper			
-Aluminum			
-Silver			
-Brass			

-Bronze Name any one example of seeds which undergoes hypogeal	P4	PLANT LIFE	
germination.			
-Maize seeds			
-Sorghum seeds			
-Millet seeds			
-Wheat seeds			
-Rice seeds			
-Oats seeds			
Related content			
Germination is the growing of a seed into a young plant			
Note: A young plant is called a seedling			
Types of germination			
-Epigeal germination			
-Hypogeal germination			
Epigeal germination			
This is the type of germination when a germinating seed carries it's			
cotyledon above the ground			
All seeds which undergo Epigeal germination are dicotyledonous seeds			
as shown below in their			
Examples			
-Beans			
-Soya beans			
-Coffee seeds			
-Orange seeds			
-Water melon seeds			
Hypogeal germination This is the type of commination where the germination could be used to be a second to be a			
This is the type of germination where the germinating seed leaves the			
cotyledons under the ground  Differences in structural appearance between the Enignal and bungged			
Differences in structural appearance between the Epigeal and hypogeal germination			
A B			

	Hypogeal Epigeal			
	Yearing foliage Ground level  Ground Seel  Ground Seel			
	Note the following a) Epigeal Under this type of germination all the food is kept in the cotyledons. And so they are as well dicotyledonous since they have two cotyledon b) Hypogeal Under this type of germination the seed store their food in the endosperm. And as well they have only one cotyledon			
31	Identify any one method of storing sound.  -Mechanical methods -Magnetic methods -Electromagnetic methods Related content Echo location This is the ability of an organism to locate objects using echo Examples of animals which use echo location -Bats -Whales -Dolphins -Propoises How is an echo formed By obstruction of sound waves / when sound waves hit the hard surface Importance of echoes / advantages	P6	SOUND ENERGY	1

	-They help bats and whales to dodge obstacles			
	-They help doctors to detect heart beats			
	-They help sailors to detect the depth of water bodies			
	-They help pilots o dodge tall buildings and mountains			
	-They help blind people to dodge obstacles by using sonar sticks			
	Disadvantages of echoes			
	-They turn music into noise in empty rooms			
	-They prevent people from communicating clearly			
	How echoes can be reduced in cinema halls, recording studios,			
	conference halls and theater halls			
	-By covering the walls with soft boards			
	-By covering the walls with sponge and thick blankets			
	Sound reflectors			
	These are materials that bounce /send back sound waves			
	Characteristics of sound reflectors			
	-They are hard			
	-They are impermeable			
	Examples of sound reflectors			
	-Mountains			
	-Hills			
	-Cliffs			
	-Rocks			
32	Give one reason why water logging is dangerous to plant roots and	P5	SOIL	2
	organisms in the soil.			
	It leads to lack of oxygen for respiration			
	Related content			
	Reasons why clay soil is poorly aerated and dried			
	It has very small spaces between its particles			
	Reasons why clay soil is used for making ceramics and bricks			
	It is sticky when wet			
	Reasons why some plants cannot grow in water logged areas			
	Due to lack of fresh air around their roots			

	Examples of crops that grow well in swamps			
	-Rice			
	-Yams			
	-Sweet potatoes			
	-Sugar canes			
	-Cabbage			
	How can clay soil be improved			
	By adding humus and lime			
	Reasons why loam soil is well drained			
	It has large pore spaces / has spaced particles			
	Soil capillarity			
	This is the upward movement of water between small spaces in the soil			
33	State the importance of alcohol in the six's thermometer.	P6	ALHOCOL,	1
	It is used to measure the lowest temperature of the day		SMOKING	
	Related content		& DRUGS I THE	
	Reasons why alcohol is used in the six's thermometer		SOCIETY	
	It has a very low freezing point			
	Reasons why people drink alcohol			
	-To pass time			
	-To quench thirsty			
	-To fit in the peer groups of alcoholics			
	-To show that they are tough			
	-To be brave			
	Alcoholism			
	Alcoholism is a condition where a person totally depends on alcohol			
	Factors that lead to alcoholism			
	-Peer pressure			
	-Frustration			
	-Family back ground			
	-Seduction advertisement			
	-Social environment			
				<u>_</u>

	Body organs affected by alcohol			
	-Brain			
	-Liver			
	-Stomach			
	-Pancreas			
	-Kidney			
	-Heart			
	Effects of alcoholism to an individual			
	-It leads to brain damage			
	-It leads to loss of appetite for food			
	-Loss of jobs			
	-It leads to liver cirrhosis (liver damage)			
	How does alcohol damage the liver			
	It causes liver cirrhosis			
	How does alcohol worsens stomach ulcers			
	It leads to loss of appetite for food			
	Effects of alcohol to a family			
	-It leads to family neglect			
	-It leads to poverty			
	-It leads to sex deviation			
	-It leads to domestic violence			
	-It leads to broken marriages			
34	Name the deficiency disease which is caused by lack of proteins in the	P.4	OUR FOOD	2
	body.			
	Kwashiorkor			
	Related content			
	Deficiency diseases are diseases caused by lack of certain class of food			
	in one's diet			
	Signs and symptoms of kwashiorkor			
	-Swollen moon face			
	-Brown hair			
	-Swollen hands and feet			

	Prevention and control of ky -Feed the child with food ric -Take the child to hospital				
	Below is a table showing de Diseases	ficiency diseases and what causes  Caused by	them ]		
	Scurvy	lack of vitamin C	1		
	Marasmus	lack of carbohydrates	1		
	Rickets	lack of vitamin D	1		
	Night blindness	lack of vitamin iodine	1		
ı	Goitre	lack of vitamin B1	1		
	food/glucose/starch Raw materials needed for p -Water -Sunlight Conditions necessary for ph -Water -Carbon dioxide Products of photosynthesis -Glucose / starch (useful pro	notosynthesis to take place  oducts) act during the process of photosynth	nesis)	CATION OFPLANTS	

Importance of each requirement for photosynthesis			
a) Water: it provides the hydrogen needed to form glucose			
Note: This water is got from soil			
b) Carbon dioxide: It provides carbon needed to form glucose			
Note: This carbon dioxide is got from the atmosphere			
c) Chlorophyll: It traps sunlight			
Note: This is the green pigment in the leaf			
d) Sunlight: It helps to split water into hydrogen and oxygen			
Reasons why photosynthesis can't take place at night			
There is no sunlight			
Importance of glucose produced during photosynthesis			
-It is used for respiration to produce energy			
-It is used to make insoluble starch			
-It is used to make cellulose which build cell walls			
Adaptations of leaves for photosynthesis			
-They are broad and flat to trap sunlight easily			
-They have thin walls to allow easy diffusion of carbon dioxide			
-They have chlorophyll to trap sunlight			
-They have leaf veins to transport water to all leaf cells			
-They are properly arranged on their stems for easy exposure to sunlight			
Factors that affect photosynthesis			
-Light intensity			
-Carbon dioxide concentration			
-Optimum temperature			
How do animals benefit from photosynthesis			
-Animals get oxygen for respiration			
-Some animals get food eg herbivores etc			
How do plants benefit from photosynthesis			
Plants get food			
State the reason why avocado is not regarded as a drupe yet it has one	P6	CLAASICFI	2
seed.		CATION	
Avocado has fleshy endocarp yet drupes have dry endocarp		<b>OFPLANTS</b>	

Related content		
Reasons why avocado is called a single seeded berry		
Avocado has a fleshy endocarp		
Pomes		
These are fruits formed from the swollen receptacles		
Note: It's inner core is the pericarp		
Examples of pomes		
-Apples		
-Pears		
Reasons why an apple is called an accessory fruit (false fruit)		
It develops from the receptacle other than the ovary		
Dry fruit		
These are fruits with a dry pericarp		
Groups of dry pericarp		
-Dehiscent fruit		
-Indehiscent fruit		
Dry dehiscent fruit		
These are dry fruits which split to disperse the seeds		
Examples of dry dehiscent fruits		
-Beans		
-Cassia		
-Desmodium (tick)		
-Pease		
-Tobacco		
-Castor oil		
-Sodom apple		
Dry indehiscent fruits		
-Sunflower		
-Tridax		
-Maize		
-Bidens pilosa (black jack)		
-Cashew nuts		

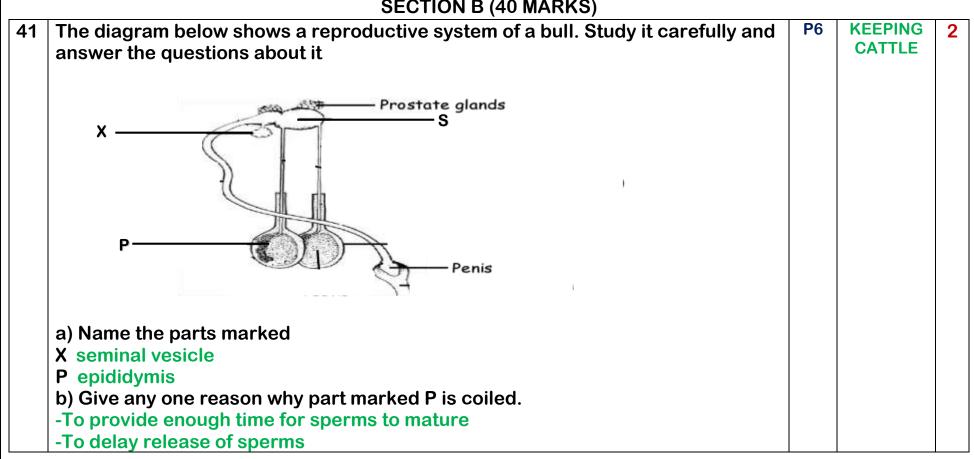
37	Mention any one group of people that promote (PHC) Primary Health	P.5	PRIMARY	2
	Care.		HEALTH	
	-Self-help group		CARE	
	-Religious groups			
	-Youth groups			
	-Social welfare			
	-Cooperative groups			
	-Village health communities			
	Related content			
	Activities done by a community to promote PHC			
	-Constructing public latrines			
	-Repairing damaged roads			
	-Organizing community health days			
	-Distributing public garbage containers			
	-Announcing any outbreak of diseases in the community			
	-Protecting water sources			
	Activities done by family to promote PHC			
	-Construction of latrines at home to promote proper disposal of human wastes			
	-Digging rubbish pits at home for proper disposal of rubbish			
	-Boiling water for drinking to prevent diarrheal diseases			
	-Setting up a plate rack at home to prevent washed utensils from getting contaminated			
	-Taking children for immunization			
	Note: How does digging a rubbish pit, constructing of latrines,			
	distributing garbage containers in the community promote PHC. I refer			
	you to the above activities done by a family in promotion of PHC.			
	Health life style that promote good health			
	-Feeding on a balances			
	-Doing regular body exercise			
	-Ironing clothes to kill germs and parasites			
	-Washing clothes to remove germs			

	-Reading books in enough light Importance of getting enough rest and sleep -It breaks fatigue -It refreshes the brain Importance of good sitting posture -It prevents deformation of bones -It prevents back and chest pain -It prevents dislocation			
38	-It makes the joints flexible -It makes the heart muscle grow stronger -It prevents heart attack  State any one reason why free range system is not used in urban areasThere is inadequate land -It needs a big piece of land Related content Advantages of free range system -It is cheap -It saves time -Birds get balanced diet -Birds need little care -It controls poultry vices Reasons why free range system is regarded as the cheapest system of poultry keeping -The farmer doesn't buy poultry feeds Disadvantages of free range system -It needs a big piece of land -Birds can easily be stolen -Birds can easily be killed by predators / wild animals -Birds can easily be poisoned	P5	Keeping poultry and bees under poultry keeping	1

	-Eggs can easily get lost			
	-It is difficult to cull birds			
	Note: Vermins			
	These are wild animals that attack and harm domestic animals			
39	Mention any one function of a crop to the digestive system of a bird.	P6	Classificati	1
	-It stores food for a short period of time		on of living	
	-It moistens and softens food		things	
	-It produces crops			
	Related content			
	Reasons why birds moult their feathers			
	To grow new feathers			
	Moulting			
	This is the shedding of old feathers in the birds			
	Reasons why birds are streamlined			
	To overcome viscosity (to reduce air resistance)			
	Importance of down feathers			
	They insulate the bird's body			
40	What scientific term is used to mean the removal of horn buds from the	P6	KEEPING	2
	head of a young animal?		CATTLE	
	-Debudding			
	-Dehorning			
	Related content			
	Instruments used in debudding /dehorning			
	-Spoon dehorner			
	-Dehorning iron			
	Advantages of dehorning			
	-It increases space in the kraal			
	-It makes animals easy to handle			
	-It prevents animals from destroying the structure			
	-It prevents animals from injuring people and other animals			
	Disadvantages of dehorning			
	-It is painful to the animal			

- -The animal may lose a lot of blood and die -The wound may become septic -It requires a skilled person who might be expensive to afford Reasons why farmers deworm their animals -To kill endo parasites **Examples of endo parasites** -Tape worm
- -Hook worm
- -Liver fluke
- -Thread worm

## **SECTION B (40 MARKS)**



- c) How is the penis adapted to its function?
- -It has an erectile tissue for erection
- -It has a sheath which protect its head (glass)
- -It has urethra to pass out sperms

Related content

Reasons why the scrotum always hanging between legs

-To keep the testes at a slightly lower temperature than the rest of the body How the scrotum regulate temperature around the testes on the following days a) Cold days

It contracts for testes to move upward and get warmth from the body

b) Hot days

It relaxes for the testes to move away from the body to cool temperature

Functions of different parts of the reproductive system of a bull

**Penis** 

It deposits sperms into the vagina

**Sheath** 

It protects the glans (head of the penis)

**Epididymis** 

It allows sperms time to mature

**Urethra** 

It passes out sperms from the penis

**Scrotum** 

- -It protects the testes from harm
- -It regulates temperature of the testes

Sperm duct

It carries sperms to the urethra

Cowper's gland

It produces a fluid that neutralizes acids in the urethra

Fertilization in s cow

This is the union of male and female gametes to from to form a zygote

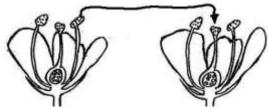
**Gametes** 

-These are reproductive cells

	-The female gamete is called ovum			
	-The male gamete is called sperm			
42	(a) State one importance of screening blood.	P6	Circulator	1
	-It helps to discover the germs in the blood		y system	
	-It helps to discover blood germs		under general	
	-It promotes safe blood transfusion		functions	
	(b) Write any two ways of increasing blood volume in the body.		of blood	
	-Feeling on food rich in iron			
	-Taking iron tablets			
	-Through blood transfusion			
	-Drinking a lot of juice			
	(c) How are blood groups formed?			
	According to the antigens in the red blood cells			
	Related content			
	General functions of blood			
	(A) Transports functions			
	-It transports digested food in the body			
	-It transports oxygen in the body			
	-It transports hormones in the body			
	-It transports metabolic wastes to excretory organs			
	(B) Protective functions			
	-It protects the body against diseases			
	-It prevents bleeding by clotting on the cuts and wounds			
	(C) Regulative functions			
	-It distributes heat in the body			
	What health problem is likely to get due to inadequate platelets in the body?			
	-Excessive bleeding in case of a cut			
	-Poor blood clotting			
	The constituents of blood plasma / components			
	-Water			
	-Hormones			
	-Antibodies			

-Digested food (amino acids, mineral salts			
-Urea			
-Carbon dioxide			
43 (a) What first aid would you give to a person who has been bitten by a snake?	<b>P6</b>	Classificat	1
(give one)		ion of	
-Tie the bandage slightly above the bitten part to prevent the flowing of venom to		living things	
the heart		under	
-Apply the black stone to absorb venom from the injured part		groups or	
-Keep the victim calm and at rest to prevent venom from spreading into the		classes of	
whole body		snakes	
(b) Write down any two signs of a venomous snake bite.			
-Two puncture wounds			
-Bleeding from the injured part			
-Swelling of the injured part			
-Excessive sweating			
(c) In one way, state how fangs are adopted to its function of injecting venom			
into the prey.			
-They are hollow			
Related content			
Importance of venom to venomous snakes			
-It help to kill the prey			
Dangers of snake venom to human life			
-It poisons blood leading to death			
-It clots blood			
-It destroys nerve cells			
-It leads to internal bleeding by breaking cells and tissues			
-It paralyzes the heart			
Medical importance of snake venom			
It is used to make antivenin / anti venom serum			
Reasons why it is advisable to identify the colour, marking and shape of a snake			
in case of a snake bite			
To give the right anti venin			<u>L</u>

The diagram below show a type of pollination. Study it carefully and answer the question about it



(a) Identify the type of pollination shown below.

**Cross pollination** 

(b) Write the general name given to a group of petals.

Corolla

- (c) Write any two examples of plants which carry out the above named type of pollination.
- -Maize plant
- -Coco plant
- -Paw paw plant
- -Cow pea plant
- -Passion fruit plant

## **Related content**

A table showing the difference between wind and insect pollinated flowers

Insect pollinated	wind pollinated
Have brightly coloured petals	Have dull coloured petals
Have large petals	Have small petals
Produce scent	Produce no scent
Produce nectar	Produce no nectar
Produce few pollen grains	Produce a lot of pollen grains
Have sticky stigma	Have lighter stigma
Have heavier pollen grains	Have lighter pollen grains

Plant life under types of pollination 2

45	(a) State any one reason why subsoil tend to be rich in mineral salts.	P5	Our	2
	Due to leaching		environme	
	(b) Identify any two factors that influence weathering		nt under	
	-Earth quake		componen ts of the	
	-Action of plant roots		environme	
	-Frost action		nt	
	-Action of heat		particularl	
	-Mining		y soil	
	-Road construction			
	(c) Suggest one reason why some plants are not able to grow crops in water			
	logged areas.			
	Due to lack of fresh air around their roots			
	Related content			
	Weathering: This is the breakdown of rocks into smaller particles to form soil			
	Types of weathering			
	-Chemical weathering			
	-Biological weathering			
	-Physical weathering			
	How does temperature cause weathering			
	When temperatures are high, rocks expand and when temperatures are low,			
	rocks contract and hence breaking			
	Reasons why loam soil is regarded as the best soil for crop growing.			
	-It has a lot of humus			
	-It is moderately drained			
	-It has a good water holding capacity			
	-It is moderately aerated			
	-It has moderate soil texture			
46	(a) What causes convection currents?	<b>P</b> 5	Matter and	2
	Different densities of molecules		energy	
	(b) State any two importance of convection in the environment.		under methods	
	-It enables air circulation in a house		of heat	
	-It helps in boiling of water		transfer	

ш	-It enables charcoal stoves to continue burning			
	-It enables hot water supply in a home			
ш	-It drives out smoke through the chimney			
ш	-Convection currents take away smoke from cigarettes			
ш	(c) State any one reason why doors and windows are put below the ventilators			
ш	on a house.			
Ш	To allow in fresh air easily			
	Related content			
Ш	Ways of managing heat in our daily life			
Ш	-Wearing white clothes on hot days			
Ш	-Using umbrellas on sunny days			
Ш	-Putting houses with white colours			
ш	-Putting some objects with white colours			
ш	Importance of ventilators on a house			
Ш	To let out stale air			
ш	Reasons why stale air go up			
	It is less dense than fresh air			
	Differences between stale and fresh air			
ш	-Fresh air is denser than stale air			
ш	-Fresh air is cool while stale air is warm			
Ш	What happens if wood is burnt in plenty of oxygen?			
Ш	It turns into ash			
47	(a) How can pitch of wind musical instrument be decreased?	P6	Sound	1
Ш	By increasing the vibrating space		energy	
Ш	(b) Which factor enables sound to travel in different media (state of matter).		under	
Ш	Molecules		transmissi on of	
ш	(c) Mention any two factors which affect the speed of sound.		sound	
ш	-Temperature			
ш	-Wind			
	-Altitude			
	-Humidity			
	-Heat			

Related content			T
Percussion instruments: Are musical instruments that produce sound by			
vibration of their surface when hit			
Examples of percussion instruments			
-Marimba			
-Xylophone/ balafon			
-Vibraphones			
-Drums			
-Long drums			
String musical instruments			
These are instruments that produce sound by vibration of their strings when			
plucked or bowed			
Examples of string musical instruments			
-Cello			
-Violin			
-Bow harp			
-Guitar			
Wind musical instruments: These are instruments which produce sound by			
vibration of air blown in them			
Examples of wind musical instruments			
-Whistle			
-Trumpet			
-Panpipes			
-Flute			
-Saxophone			
-Bugle			4
(a) How do bacteria locomote / move?	P5	Bacteria	
By using flagella		and fungi	
(b) Give any two conditions needed by bacteria to reproduce.			
-Food			
-Moisture (water)			
-Warmth			

$\overline{}$				
	-Oxygen			
	(c) In one way, suggest how bacteria are able to survive harsh environmental			
	and chemical conditions.			
	By forming endosperms			
	Related content			
	Single celled organism that reproduce by cell division (Binary fission)			
	-Bacteria			
	-Amoeba			
	-Virus			
	-Paramecium			
	Importance of bacteria (ways in which bacteria are useful)			
	-Some bacteria help to fix nitrogen in the soil eg rhizobia			
	-Some bacteria help in decomposition of organic matter eg putrefying bacteria			
	-Some bacteria help in production of vinegar			
	Reasons why it is bad to pour kerosene and oil in latrine			
	Oil kills bacteria and maggots that would reduce the volume of feaces			
	Examples of processes which need bacteria to take place			
	-Decomposition			
	-Fermentation of milk (production of cheese, butter and yoghurt)			
	-Production of vinegar			
	-Biogas production (anaerobic fermentation)			
49	The diagram below shows an equipment found on livestock farms. Study it and	P6	KEEPING	2
	answer the questions that follows.		CATTLE	
ll	$\mathcal{O}$			
	(a) Identify the farm instrument drawn above.			
	Burdizzo			
	(b) How important is the above named instrument to a cattle farm?			
	It is used in closed castration of live stock			
l				

$\overline{}$				
	(c) In one way, state how the above named tool adopted to its functions.			
	It has a blunt pincers			  -
	(d) Mention any one advantage of castration in livestock farming			·
	-It prevents in breeding			  -
	-It prevents random mating			·
	-It prevents un wanted pregnancies			·
	-It prevents bad smell in male animals			·
	Related content			·
	Calf management practices on a farm			i i
	-Dehorning			·
	-Hoof trimming			·
	-Castration			·
	-Spraying			·
	-Dipping			·
	-Dusting			·
	-Numbering / identification			  -
	Branding			·
	This means putting marks on the body of animals using hot iron			·
	Different ways of branding animals			·
1	-Ear notching			i i
	-Ear tagging			·
	-Using a number lace			İ
	-Ear tattooing			
	-Tail bobbing			
	Castration: This is the removal or inactivation of testicles of a male animal			
	Methods of castration			
	-Open castration			
	-Closed castration			
	-Loop castration			
50	(a) Define drug prescription.	P.6	ALCOHOL	1
	This is the information written by a medical worker on how to use a drug		,SMOKING	
	(b) State any two factors considered when prescribing drugs.			·

	-Age and patient	AND	
	-Weight of the patient	DRUGS IN	
	-Kind of previous drug	THE SOCIETY	
	-Duration of sickness	SOCIETY	
	-Type of sickness		
	(c) What does the statement below represent medically? (2 x 3)		
	- Means taking 2 tablets every after 8hours		
	-Means taking 2tablets three times a day		
	Related content		
	Advantages of drug prescription		
	-It prevents wrong dose		
	-It prevents drug misuse		
	-It prevents poisoning		
	Causes of over dose		
	-Much fear for the diseases		
	-Sweetness of some drugs		
	-Self medication		
	-Drug misuse		
	-Keeping drugs in children's reach		
	Disadvantages of over dose		
	-It leads to poisoning		
	-It can lead to death		
	-It damages body organs		
	Some information manufactures put on a drug during packaging and before		
	selling it		
	-Name of the drug		
	-Diseases cured by a drug		
	-Expiry date		
	-Composition of the drug		
51	(a) State any one reason why wind mills are not commonly used in Uganda to		
	produce electricity.		
	Uganda does not have regular windy seasons		

	(b) Suggest any one use of wind mills.			
	-It is used to draw water from underground tanks			
	-It is used to grind grains and seeds			
	-It is used to generate wind electricity			
	(c) Outline any two dangers of wind mills to people.			
	-It is an agent of soil erosion			
	-It spreads air borne diseases			
	-It destroys houses			
	-It breaks trees and crops			
	Related content			
	General uses of minerals			
	-They are source of income when sold			
	-They are used as raw materials in industries			
	-They earn foreign exchange for the government			
	Ways of conserving minerals			
	-Making alloys			
	-Painting metals to avoid rusting			
	-Recycling scrap metals			
52	(a) List down any two examples of urinary tract infection (UTIs).	P6	RESOURC	2
	-Genital warts		ES IN THE	
	-Genital herpes		ENVIRON MENT	
	-Gonorrhea		MENI	
	-Candidiasis			
	-Trichomoniasis			
	-Chlamydia			
	(b) Write any two signs of UTIs.			
	-Blocked urethra			
	-Pus discharge from penis and vagina			
	-Swelling of genital parts			
	-Bleeding from the genital parts			
	Related content			
	Ways of controlling secondary infections			
I				_

	-Abstain from sex until marriage -Be faithful to our sexual partners -Use condoms to play sex with un trusted partner -Avoid extra marital sex -Learning more facts about HIV PID in full Pelvic Inflammatory Disease Signs of PID -Pain in the lower abdomen -Fever			
	Dangers of PID (effects of uncontrolled STDs in female) -Painful menstruation -Sterility (barrenness) -Blocked oviduct -Wounds in the uterus General prevention and control of STDs / STI -Keep reproductive organs clean -Keep latrines clean			
	-Abstain from sex until marriage			
	-Be faithful to our sexual partners			
l	-Use condoms to play sex with un trusted partner			
53	(a) What term is used to mean the force of attraction between molecules of different kinds?  Adhesion (b) State any two properties of gaseous state of matter  -They do not have definite shape  -Molecules in gases are furthest apart  -Heat travels in gases by convention  -Gaseous state has the smallest density (c) Mention any one example of viscous liquids.	P5	Matter and energy	2

				_
	-Porridge -Syrup -Honey Related content Sublimation: This is the direct physical change of liquids to gases Examples of sublimates (substance which can sublime) -lodine -Naphthalene (mothballs) -Potassium per manganite			
	-Dry ice			
54	Study the experiment below that confirms water being a poor conductor of heat.	P5	HEAT ENERGY	2
	Steam			
	Boiling water			
	Doming Water			
	Ice wrapped in Bunsen burner			
	wire gauze			
	(a) State the reason why ice cubes didn't melt yet the water at the top was			
	boiling.			
	Water is poor conductor of heat			
	(b) Why does hot water remain on top of cold water as shown in the experiment			
	above?			
	Heated molecules are less dense than cold molecules			
	(c) Suggest any two applications of conduction of heat in our daily life.			
	-It helps in ironing clothes			
	-It enables us to cook food in saucepan			
	-It helps in iron smelting			
	-It helps in melting ghee and butter			
	-It helps us to roast meat on metal rods			

	Related content Reasons why the sea is cool during day time -Water reflects some heat -Sun rays go deep in water since it is transparent -Water waves mix the warm water at the surface with cool water below it Reasons why the land warms quickly during day time -Land absorbs heat -Heat does not go inside the land How does heat from the sun reach the earth to dry wet clothes			
55	By radiation	P.5	PRIMARY HEALTH CARE	2

-Older children teach young ones to wash hands before meals

-Older children take young ones for immunization

**PWD** in full

**People With Disabilities** 

Types of disabilities

-Physical disabilities

-Sensory disabilities

Physical disabilities

This is when a person's limbs or arms are crippled

Sensory disabilities

This is when a person's sense do not work well

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Note, we have acknowledged the challenge of our learners trying to cope up with new lower secondary curriculum and so we have shifted our setting to face the new challenge which calls for learners' personal explanation and then teachers always to conduct learner's centered lessons