



**THE DREAM EDUCATION CONCERN**  
*"Quest for excellence"*



**PLACEMENT SET- PRIMARY FOUR INTEGRATED SCIENCE**  
**OFFICIAL MARKING GUIDE**



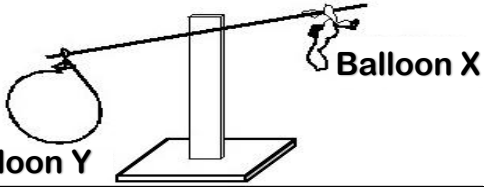
**A PRODUCT OF THE DREAM EDUCATION CONCERN**  
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**FOR ALL EXAMINATIONS FROM BABY TO P.7**

**THE DREAM PUBLISHERS OF QUALITY ASSESSMENTS, WORKBOOKS, COMPANION BOOKS, PLE REVISIONBOOKS,  
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**TURN OVER**

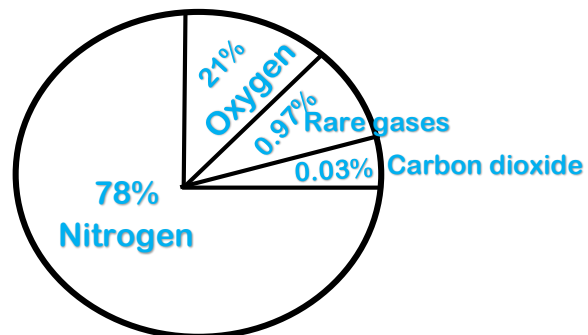
## SECTION A (40 MARKS)

NO	RESPONSE AND RELATED CONTENT	CLASS	TOPIC	TERM
1	<p>Name the best soil for crop growing.</p> <p>Loam soil</p> <p>Related content</p> <p>How to keep water in the soil?</p> <p>By mulching</p> <p>Ways of keeping soil fertile</p> <ul style="list-style-type: none"> <li>-By mulching</li> <li>-By adding manure</li> <li>-By bush fallowing</li> </ul> <p>Soil is the medium on which plants grow and animals live</p>	P3	Soil	1
2	<p>Mention any one natural changes around us.</p> <ul style="list-style-type: none"> <li>-Floods</li> <li>-Drought</li> <li>-Hail storm</li> <li>-Earth quake</li> <li>-Land slides</li> <li>-Soil erosion</li> </ul> <p>Related content</p> <p>Natural changes in plants</p> <ul style="list-style-type: none"> <li>-Growth of plants</li> <li>-Germination</li> <li>-Drying plants / wilting</li> <li>-Ripening of fruits</li> </ul> <p>Importance of soil to plants</p> <ul style="list-style-type: none"> <li>-Plants get water and mineral salts from soil</li> <li>-Soil hold plants upright</li> </ul>	P3	Soil	1

3	<p>State the type of weather which helps farmers to winnow their farm cereals.</p> <p><b>Windy weather</b></p> <p><b>Related content</b></p> <p>Nimbus clouds give us rainfall</p> <p>Weather is the state of atmosphere of a place in a given period of time</p> <p><b>Types of weather / conditions of weather</b></p> <ul style="list-style-type: none"> <li>-Windy weather</li> <li>-Rainy weather</li> <li>-Sunny weather</li> <li>-Cloudy weather</li> </ul> <p><b>Items used in different kinds of weather</b></p> <p>Rainy weather – umbrellas, gumboots, raincoats</p> <p>Sunny weather – umbrellas, light clothes, sunglasses, sandals</p> <p>Windy weather – sunglasses</p> <p>Cloudy weather – sweater, jackets, overall</p>			
	<p>The diagram below shows a given property of air. Use it to answer questions 4 and 5.</p> 	P3	Air and the sun	1
4	<p>Name the property of air shown above.</p> <p><b>Air has weight</b></p>			
5	<p>State the reason why balloon “Y” went down as shown in the diagram above.</p> <ul style="list-style-type: none"> <li>-Balloon Y had weight of air</li> <li>-Due to weight of air in balloon Y</li> </ul> <p><b>Related content</b></p> <p>Air is the mixture of gases</p> <p><b>Components of air</b></p>			

- Nitrogen
- Carbon dioxide
- Oxygen
- Rare gases

Percentage composition of air in the atmosphere



6 State the main natural source of light and heat energy in the environment.

Sun

Related content

Effects of the sun

- Helps to see
- Tells direction
- It helps in rain formation
- It is a source of solar energy
- Provides vitamin D

How useful is the sun to plants

- It helps plants to make their own food
- It helps plants to grow well

Dangers of the sun

- Prolonged sunshine cause drought
- Too much sunshine dry crops

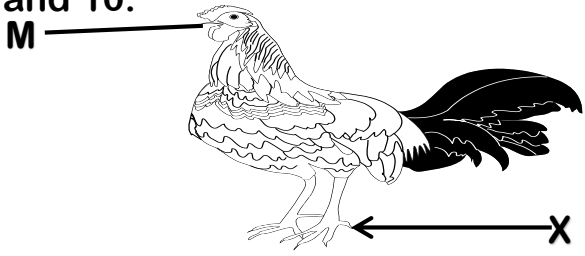
Changes brought by the sun on earth

P3

Air and the sun

1

	<ul style="list-style-type: none"> <li>-It causes day and night</li> <li>-It causes drought</li> </ul>			
7	<p>Mention any one way of harvesting water.</p> <ul style="list-style-type: none"> <li>-By using tanks</li> <li>-By using jerry cans</li> <li>-Tapping from the roof</li> <li>-Using dams</li> <li>-Tapping from trees</li> </ul> <p><b>Related content</b></p> <p><b>Ways of protecting water sources</b></p> <ul style="list-style-type: none"> <li>-By fencing sources</li> <li>-By putting laws</li> <li>-By planting grass around them</li> <li>-Proper disposal of waste products</li> <li>-Adding chlorine to water to kill germs</li> </ul> <p><b>Importance of water</b></p> <ul style="list-style-type: none"> <li>-It is used for transport</li> <li>-It helps in domestic work</li> <li>-It is used to generate hydro-electricity power</li> <li>-It is used for cooling machines</li> <li>-It is used for irrigation / watering crops</li> </ul>	P3	Water	1
8	<p>Give the meaning of the term sanitation.</p> <p>Sanitation is the general cleanliness of the place where we live</p> <p><b>Related content</b></p> <p><b>Importance of sanitation</b></p> <ul style="list-style-type: none"> <li>-It reduce the spread of germs</li> <li>-It promotes public health</li> <li>-Little money is spent on treating of people</li> <li>-People live longer</li> </ul>	P3	Water	1

	<p><b>-Vectors are controlled</b></p> <p><b>Ways of promoting proper sanitation</b></p> <ul style="list-style-type: none"> <li>-Cleaning latrines or toilets</li> <li>-Proper disposal of rubbish</li> <li>-Slashing around the homes</li> <li>-Draining away stagnant water</li> <li>-Sweeping our compounds</li> <li>-Fencing all our water bodies</li> </ul>			
	<p>The diagram below shows the external parts of a cock. Use it to answer question 9 and 10.</p> 	P3	Sub-theme: Birds	
9	<p>Name the part labelled X.</p> <p><b>Spur</b></p>			
10	<p>State the function of the part marked M to a bird.</p> <ul style="list-style-type: none"> <li>-It picks food</li> <li>-It is also used for protection / fighting</li> </ul> <p><b>Related content</b></p> <p><b>Characteristics of birds</b></p> <ul style="list-style-type: none"> <li>-Birds are covered with feathers on their bodies</li> <li>-Birds breathe by means of lungs</li> <li>-Have beaks for picking food and fighting</li> <li>-Have claws</li> <li>-Birds reproduce by laying eggs</li> </ul> <p><b>Types of birds</b></p>			

	<p><b>Domestic birds</b>  These are birds kept at home  <b>Examples of domestic birds</b>  -Ducks  -Pigeons  -Peacocks  -Guinea fowls  <b>Wild birds</b>  These are birds found / live in the bush  <b>Examples of wild birds</b>  -Weaver birds  -Crested crane  -Eagle / crows</p>			
11	<p>Mention any one importance of a school garden.  -For study purposes  -Children learn how to dig  -Children get food from the school garden  -Surplus food is sold to generate income to the school  <b>Related content</b>  <b>Factors considered when setting up a school garden</b>  -It should be near a water source  -It should be near the school  -It should be in an open space</p>	P3	Plants	
12	<p>State any one reason why patients are given ORS.  To replace the lost water and mineral salts in the body  <b>Related content</b>  <b>Characteristics of vectors</b>  -Vectors carry germs  -Vectors live in dirty places</p>	P3	Sub-theme: Vectors	3

	<ul style="list-style-type: none"> <li>-Some vectors suck blood</li> <li>-Most vectors are insects</li> </ul> <p><b>Vectors</b></p> <p>Vectors are living organisms that spread disease causing germs</p> <p><b>Examples of common vectors in the environment</b></p> <ul style="list-style-type: none"> <li>-Mosquitoes</li> <li>-House flies</li> <li>-Black flies</li> <li>-Mad dogs</li> <li>-Tsetse flies</li> </ul>			
13	<p>Mention any one way of saving energy.</p> <ul style="list-style-type: none"> <li>-Using energy saving bulbs</li> <li>-Switching off electric appliances after use</li> <li>-Put out fire when not in use</li> <li>-Planting trees</li> </ul> <p><b>Related content</b></p> <p>Energy is the ability to do work</p> <p><b>Main source of energy</b></p> <ul style="list-style-type: none"> <li>-Natural source of energy</li> <li>-Artificial source of energy</li> </ul> <p>Natural sources of energy are sources made by God</p> <p><b>Examples of natural sources of energy</b></p> <ul style="list-style-type: none"> <li>-Wind</li> <li>-Water</li> <li>-Sun</li> <li>-Food</li> </ul>	P3	Sub-theme / content: source of energy	3
14	<p>Give any one cause of road accidents in the community.</p> <ul style="list-style-type: none"> <li>-Carelessness</li> <li>-Poor roads</li> </ul>	P3	Sub-theme: Accidents and first aid	3



	<ul style="list-style-type: none"> <li>-Over speeding</li> <li>-Over taking in corners</li> <li>-Driving while drunk</li> <li>-Over loading</li> <li>-Driving vehicles in mechanical conditions</li> <li>-Playing on the road</li> <li>-Bad weather</li> <li>-Pedestrians</li> <li>-Drivers</li> <li>-Animals</li> </ul> <p><b>Related content</b>  <b>Ways of controlling road accidents</b></p> <ul style="list-style-type: none"> <li>-Avoid over speeding</li> <li>-Avoid playing on the road</li> <li>-Do not drive while drunk</li> <li>-Avoid over loading</li> <li>-Observing the high way code</li> <li>-Following road signs</li> <li>-Using fly overs</li> <li>-Avoid over taking in the corners</li> </ul>			
15	<p><b>State any one reason why farmers keep domestic animals.</b></p> <ul style="list-style-type: none"> <li>-To get meat</li> <li>-To get milk</li> <li>-To sell and get money</li> <li>-For transport like donkeys, camels and horses</li> <li>-For protection like dogs</li> <li>-For prestige</li> </ul> <p><b>Related content</b>  <b>Ways of caring for domestic animals</b></p>	P3	Living things	

	<ul style="list-style-type: none"> <li>-Giving them food and water</li> <li>-By cleaning their houses</li> <li>-By treating them when sick</li> <li>-By building for them shelters</li> </ul>			
16	<p>Give any one reason why we should smoke latrines.</p> <ul style="list-style-type: none"> <li>-To reduce bad smell</li> <li>-To prevent houseflies</li> </ul> <p><b>Related content</b>  <b>Things used to keep proper sanitation</b></p> <ul style="list-style-type: none"> <li>-Brooms</li> <li>-Soap</li> <li>-Water</li> <li>-Rakes</li> <li>-Brushes</li> <li>-Spades etc</li> </ul> <p><b>Qualities of a good house</b></p> <ul style="list-style-type: none"> <li>-A good house should have windows</li> <li>-A good house should have a strong roof</li> <li>-A good house should have ventilators</li> <li>-A good house should have a verandah</li> </ul>	P3	Air and the sun	3
17	<p>Name the vector which spread trachoma to people.</p> <p>House fly</p> <p><b>Related content</b>  Trachoma is caused by vectors called house flies but the germs that spreads it is called chlamydia virus</p> <p><b>Signs and symptoms of trachoma</b></p> <ul style="list-style-type: none"> <li>-Itching eyes</li> <li>-Eye turns red</li> <li>-Tears come out of eyes</li> </ul>	P3	Vectors	3

	<ul style="list-style-type: none"> <li>-Difficult to look in eyes</li> <li>-Painful eyes</li> </ul> <p><b>Control and treatment of trachoma</b></p> <ul style="list-style-type: none"> <li>-Observe personal hygiene</li> <li>-Spray the house flies</li> <li>-Do not share face towels and basins</li> <li>-Keep eyes clean</li> <li>-Avoid shaking hands with infected person</li> </ul>			
18	<p><b>Write down any one of the PIACY messages.</b></p> <ul style="list-style-type: none"> <li>-Say no to bad touches</li> <li>-Do not take gifts from strangers</li> <li>-Do not move in lonely places</li> <li>-Say no to early marriages</li> <li>-Follow your religion and stay safe</li> <li>-Boys and girls respect virginity</li> <li>-HIV and AIDs kill, protect yourself</li> </ul> <p><b>Related content</b></p> <p><b>Signs and symptoms of AIDs</b></p> <ul style="list-style-type: none"> <li>-Loss of weight</li> <li>-Loss of appetite</li> <li>-Chronic appetite</li> <li>-Skin rashes</li> <li>-Skin cancer</li> </ul> <p><b>Ways how AIDs is spread from one person to another</b></p> <ul style="list-style-type: none"> <li>-Through un protected sex with infected person</li> <li>-Through blood transfusion</li> <li>-Through breast feeding</li> <li>-At birth from mother to un born baby</li> <li>-Through cultural practices like circumcision</li> </ul>	P3	HIV / AIDs	

19	<p>State any one reason why schools plant trees in their compounds.</p> <ul style="list-style-type: none"> <li>-To control the air in the school environment</li> <li>-To control soil erosion</li> <li>-To act as wind breaks</li> <li>-To provide shade to school community</li> </ul> <p><b>Related content</b>  <b>Reasons why schools plant flowers in their compounds</b>  <b>To beautify the compound</b></p>	P3		
20	<p>Mention any one importance of saving energy.</p> <ul style="list-style-type: none"> <li>-It avoids wastage</li> <li>-It gives room for future usage</li> <li>-It saves money</li> </ul> <p><b>Related content</b>  <b>How is wind a source of energy</b>  <b>-Wind moves kites, parachutes and balloons</b>  <b>- Wind moves wind mills</b>  <b>-Wind sails boats and ship</b>  <b>-Wind dry clothes</b>  <b>-Wind drives machines</b></p>	P3	Source of energy	3
21	<p>Give any one way how danger of electric shocks can be controlled.</p> <ul style="list-style-type: none"> <li>-Proper installation</li> <li>-Insulating electric wires</li> </ul> <p><b>Related content</b>  <b>Energy conservation means ways of saving energy</b>  <b>Uses of electricity</b>  <b>-For running machines</b>  <b>-For cooking</b>  <b>-For washing clothes</b>  <b>-For producing light</b></p>	P3	Source of energy	3

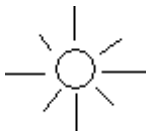


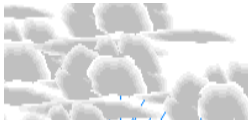
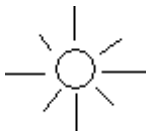


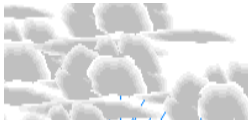
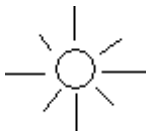


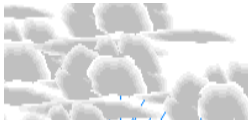
	<ul style="list-style-type: none"> <li>-For hair dressing</li> </ul> <b>Dangers of electricity</b> <ul style="list-style-type: none"> <li>-It burns clothes</li> <li>-It shocks people</li> <li>-It spoils machines</li> </ul>			
22	<p>Write any one cause of accidents at home.</p> <ul style="list-style-type: none"> <li>-Climbing trees</li> <li>-Playing with sharp objects</li> <li>-Over running</li> <li>-Playing with fire</li> <li>-Poor storage of machines</li> <li>-Fighting</li> <li>-Playing near water bodies</li> </ul> <b>Related content</b> <b>Examples of accidents at home</b> <ul style="list-style-type: none"> <li>-Cuts</li> <li>-Burns</li> <li>-Bruises</li> <li>-Near drowning</li> <li>-Bites</li> <li>-Poisoning</li> <li>-Electric shocks</li> </ul>	P3	Accidents and first aid	3
23	<p>Which type of germination does a bean seed under go?</p> <p>Epigeal germination</p> <b>Related content</b> <b>Seed germination</b> Is the process by which a seed develops into a young plant <b>Conditions needed for germination to take place</b> <ul style="list-style-type: none"> <li>-Water</li> </ul>	P3	Sub-theme: Plant	2

	<ul style="list-style-type: none"> <li>-Warmth</li> <li>-Oxygen</li> </ul> <p><b>Types of germination</b>  <b>Epigeal germination:</b> This is the type of germination where the cotyledons come above the ground  <b>Examples of seeds which undergo Epigeal germination</b>  <ul style="list-style-type: none"> <li>-Beans</li> <li>-Ground nuts etc.</li> </ul> </p>			
24	<p>Write any one way of caring for garden tools.</p> <ul style="list-style-type: none"> <li>-Keeping them in dry places</li> <li>-Panting the tools</li> <li>-By oiling the tools</li> <li>-By greasing the tools</li> <li>-By cleaning the tools before storing them</li> </ul>			
25	<p>Give the meaning of the term solitary insect.  Solitary insects are insects which do not live, move and work together.</p> <p><b>Related content</b>  <b>Examples of solitary insects</b>  <ul style="list-style-type: none"> <li>-House flies</li> <li>-Locusts</li> <li>-Mosquitoes</li> <li>-Cockroaches</li> <li>-Dragon flies</li> <li>-Butter flies</li> </ul> <b>Social insects</b>  These are insects which live, move and work together  <b>Examples of social insects</b>  <ul style="list-style-type: none"> <li>-Bees</li> <li>-Red ants</li> </ul> </p>	P3	Insect habitats (homes)	

	<ul style="list-style-type: none"> <li>-Termites</li> <li>-Wasps</li> <li>-Black ants</li> <li>-White ants</li> </ul>			
26	<p>State any one reason why a spider is not regarded as a true insect.</p> <ul style="list-style-type: none"> <li>-A true insect has three pairs of legs while a spider has two pairs of legs</li> <li>-A true insect has three body parts while a spider has on two body parts</li> </ul> <p><b>Related content</b></p> <p><b>Characteristics of insects</b></p> <ul style="list-style-type: none"> <li>-Have jointed legs</li> <li>-Have three main body parts</li> <li>-Have feelers for feeling and smelling</li> <li>-Have three pairs of legs</li> </ul>			
	<p>The chain below shows one of the methods of controlling weeds. Use it to answer question 27 and 28.</p> <pre> graph TD     B[Beans] -- 1st season --&gt; M[Maize]     M -- 2nd season --&gt; GN[Ground nuts]     GN -- 3rd season --&gt; C[Cabbage]     C -- 4th season --&gt; B </pre>	P3	Soil	1
27	<p>Name the weeds control method shown above.</p> <p><b>Crop rotation</b></p>			
28	<p>State any one advantage of using the above mentioned method.</p>			

	<ul style="list-style-type: none"> <li>-It makes soil fertile</li> <li>-It controls soil erosion</li> <li>-It controls crop pests</li> <li>-It controls weeds</li> <li>-It controls crop diseases</li> </ul> <p><b>Related content</b>  <b>Ways of controlling weeds</b></p> <ul style="list-style-type: none"> <li>-By spraying</li> <li>-By mulching</li> <li>-By slashing</li> <li>-By crop rotation</li> </ul> <p><b>Crop rotation:</b> Is the growing of different types of crops on the same piece of land season after season</p> <p><b>Examples of weeds</b></p> <ul style="list-style-type: none"> <li>-Black jack</li> <li>-Star grass</li> <li>-Nut grass</li> <li>-Milk grass</li> <li>-Pig weeds</li> </ul>			
29	<p>Give any one reason why people carry out deforestation.</p> <ul style="list-style-type: none"> <li>-To get charcoal</li> <li>-To get fire wood</li> <li>-To get poles</li> <li>-To make space for farming</li> <li>-To get space for settling</li> </ul> <p><b>Related content</b>  <b>Deforestation</b>  Is the massive cutting down of trees  <b>Dangers of deforestation</b></p>	P3	Soil	1












	<ul style="list-style-type: none"><li>-It causes soil erosion</li><li>-It leads to drought</li><li>-It destroys habitat for wild animals</li></ul>											
30	<p>Write one importance of nimbus clouds to farmers.</p> <ul style="list-style-type: none"><li>-It provides rainfall that support plant growth</li><li>-It gives rainfall that support plant growth</li><li>-It increases farm productivity / production</li></ul> <p>Related content</p> <p>The weather chat</p> <table><tr><td>Sunny</td><td>Rainy</td><td>Windy</td><td>Cloudy</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Sunny	Rainy	Windy	Cloudy					P3	Weather	1
Sunny	Rainy	Windy	Cloudy									
												
31	<p>Give one reason why the Stevenson screen is painted white.</p> <p>To reflect heat</p> <p>Related content</p> <p>Examples of weather instruments kept in a Stevenson screen</p> <ul style="list-style-type: none"><li>-Barometer</li><li>-Thermometer</li></ul>	P3	Weather	1								
32	<p>Write down any farm activity farmers do during dry season.</p> <ul style="list-style-type: none"><li>-Ploughing</li><li>-Slashing</li><li>-Burning the slashed bushes</li><li>-Drying seeds</li><li>-Harvesting</li></ul> <p>Related content</p> <p>Reasons why harvesting is done during dry season</p>											



	<ul style="list-style-type: none"> <li>-To allow easy drying of harvested crops</li> <li>-To avoid rotting of the harvested crops</li> </ul> <p><b>Activities done by farmers during wet season</b></p> <ul style="list-style-type: none"> <li>-Planting seeds</li> <li>-Weeding</li> <li>-Pruning</li> </ul>			
33	<p><b>Name any one product made from skins and hides.</b></p> <ul style="list-style-type: none"> <li>-Belts</li> <li>-Drums</li> <li>-Shoes</li> <li>-Watch traps</li> <li>-Hand bags</li> </ul> <p><b>Related content</b></p> <p>Animals kept for transport are called pack animals</p> <p><b>Examples of pack animals</b></p> <ul style="list-style-type: none"> <li>-Donkeys</li> <li>-Camels</li> <li>-Horses</li> <li>-Oxen</li> </ul> <p><b>Products made from bones of animals</b></p> <p>Animal feeds</p> <p><b>Products made from sheep wool</b></p> <ul style="list-style-type: none"> <li>-Woolen blankets</li> <li>- Sweaters</li> <li>-Stockings</li> <li>-Jackets</li> <li>-Scurvies</li> </ul>			
34	<p><b>Mention any one importance of a nursery bed.</b></p> <ul style="list-style-type: none"> <li>-It protects the seedling from harsh condition eg too much sunshine</li> </ul>			





	<ul style="list-style-type: none"> <li>-It is easy to care for the seedlings</li> <li>-It is easy to select good seedlings</li> </ul> <p><b>Related content</b></p> <p><b>Examples of crops grown in a nursery bed</b></p> <ul style="list-style-type: none"> <li>-Tomatoes</li> <li>-Cabbage</li> <li>-Passion fruits</li> <li>-Oranges</li> </ul> <p><b>Ways how to care for crops in a nursery bed</b></p> <ul style="list-style-type: none"> <li>-Watering the crops</li> <li>-Spraying the crops</li> </ul>			
35	<p>Write down any one activity carried out by p.4 pupils to keep their class clean.</p> <ul style="list-style-type: none"> <li>-Sweeping the classroom</li> <li>-Mopping the classroom</li> <li>-Arranging books in the classroom</li> <li>-Dusting tables and chairs</li> </ul>			
36	<p>State any one basic need of people.</p> <ul style="list-style-type: none"> <li>-Food</li> <li>-Water</li> <li>-Clothing</li> <li>-Shelter</li> <li>-Security</li> </ul> <p><b>Related content</b></p> <p><b>Basic needs</b></p> <p><b>These are things which man cannot stay without</b></p>			
37	<p>Write any one by-product of photosynthesis.</p> <ul style="list-style-type: none"> <li>-Oxygen</li> <li>-Starch</li> </ul>			



1	 <p>Hoe</p>	<ul style="list-style-type: none"> <li>· Digging</li> <li>· Planting</li> <li>· Weeding</li> <li>· Harvesting</li> </ul>				
2	 <p>Spade</p>	<ul style="list-style-type: none"> <li>· Mixing manure</li> <li>· Lifting soil</li> </ul>				
3	 <p>Rake</p>	<ul style="list-style-type: none"> <li>· Leveling soil</li> <li>· Collecting weeds</li> </ul>				
4	 <p>Wheel burrow</p>	<ul style="list-style-type: none"> <li>· Carrying soil</li> <li>· Carrying manure</li> <li>· Carrying harvest</li> </ul>				

5	 <p>Slasher</p>	<ul style="list-style-type: none"> <li>· Cutting grass</li> <li>· Cutting weeds</li> </ul>				
6	 <p>Axe</p>	<ul style="list-style-type: none"> <li>· Cutting big trees</li> <li>· Chopping wood</li> </ul>				
7	 <p>Panga</p>	<ul style="list-style-type: none"> <li>· Cutting small branches</li> <li>· Cutting trees</li> <li>· Harvesting sugar cane</li> </ul>				
8	 <p>Forked hoe</p>	<ul style="list-style-type: none"> <li>· Digging hard ground</li> <li>· Digging stony ground</li> </ul>				
9	 <p>Watering can</p>	<ul style="list-style-type: none"> <li>· Watering crops</li> <li>· Watering seedlings</li> </ul>				

10	 <p>Garden fork</p>	<ul style="list-style-type: none"> <li>· Mixing manure</li> </ul>				
11	 <p>Shovel</p>	<ul style="list-style-type: none"> <li>· Transplanting</li> <li>· Carrying seedlings</li> </ul>				
12	 <p>Pick axe</p>	<ul style="list-style-type: none"> <li>· Digging in rocky ground</li> <li>· Digging in stony soils</li> </ul>				
13	 <p>Secateur</p>	<ul style="list-style-type: none"> <li>· Pruning crops</li> </ul>				
14	<p>Pruner</p>	<ul style="list-style-type: none"> <li>· Pruning crops</li> </ul>				

	15	 <p>Hand fork</p>	<ul style="list-style-type: none"> <li>· Light weeding</li> <li>· Removing seedlings from soil</li> </ul>				
	16	 <p>Sprayer</p>	<ul style="list-style-type: none"> <li>· Spraying crops</li> </ul>				
	17	 <p>Knives</p>	<ul style="list-style-type: none"> <li>· Harvesting</li> <li>· Pruning</li> <li>· Peeling</li> </ul>				
	18	 <p>Tape measure</p>	<p>· Laying out crops in the garden</p>				
40	<p><b>State the similarity between germination and rusting.</b></p> <p>-Both take place in presence of oxygen</p> <p>-Both need oxygen to occur / take place</p> <p><b>Related content</b></p> <p><b>The following processes need oxygen to take place</b></p> <p>-Burning</p> <p>-Rusting</p>						



-Germination  
-Breathing in

## SECTION B (60 MARKS)

41	<p>Match the following body parts to their functions</p> <table><tr><th>Body part</th><th>Body function</th></tr><tr><td>Nose</td><td>For testing</td></tr><tr><td>Ears</td><td>For seeing</td></tr><tr><td>Tongue</td><td>For smelling</td></tr><tr><td>Eyes</td><td>For hearing</td></tr><tr><td>(i) Nose</td><td>For smelling</td></tr><tr><td>(ii) Ears</td><td>For hearing</td></tr><tr><td>(iii) Tongue</td><td>For testing</td></tr><tr><td>(iv) Eyes</td><td>For seeing</td></tr></table>	Body part	Body function	Nose	For testing	Ears	For seeing	Tongue	For smelling	Eyes	For hearing	(i) Nose	For smelling	(ii) Ears	For hearing	(iii) Tongue	For testing	(iv) Eyes	For seeing			
Body part	Body function																					
Nose	For testing																					
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(i) Nose	For smelling																					
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(iii) Tongue	For testing																					
(iv) Eyes	For seeing																					
42	<p>(a) Give any one reason why sand soil cannot retain water like clay soil.</p> <p>-Sand soil has bigger particles than clay</p> <p>-Sand soil has wide spaces between particles</p> <p>(b) Mention any two examples of materials made from clay soil.</p> <p>-Plates</p> <p>-Cups</p> <p>-Roofing tiles</p> <p>-Pots</p> <p>(c) Write any one craft material got from swamps.</p> <p>-Papyrus reeds</p> <p>-Clay soil</p> <p>Related content</p> <p>Characteristics of clay soil</p> <p>-It has smallest particles</p>	P3	Soil	1																		

-It is sticky  
 -Its particles are closely packed  
 -It has little humus  
 (NB) Clay soil is commonly used for modelling

**Characteristics of sand soil**  
 -It has biggest particles  
 -It has enough particles  
 -Particles are loosely particles  
 -it drains water quickly

**State any two reasons why loam soil is the best soil for crop growing**  
 -Loam soil is well aerated  
 -Loam soil is well drained  
 -It contains balanced particles of sand and clay soil  
 -Loam soil has humus

**Characteristics of loam soil**  
 -It is a mixture of sand and clay soil  
 -It is dark in colour  
 -It has a lot of humus

**Weathering**  
 This is the process by which rocks break down into small particles to form soil

**Agents of weathering**  
 -Animals  
 -Strong wind  
 -Earth quake  
 -Plants

**Soil profile**  
 Soil profile is the vertical arrangement of soil layers from the top to the bottom

43 Name the vector which spread typhus fever.  
 It is caused by a Tick

P3

Vectors

3

(b) Suggest any two signs of river blindness.

- Bumps on the hips
- Bumps on the legs
- Itching skin rashes
- Severe skin itching

**Note:** The germ which is carried by ticks to cause typhus fever is rickettsia

(c) Mention the worm which causes bilharzia

It's Schistosoma / blood fluke

**Related content**

**Match the vectors to the disease they spread**

**A**

**Vector**

Black fly

Ticks

Lice

Fleas

Dogs

**B**

**Disease**

Rabies

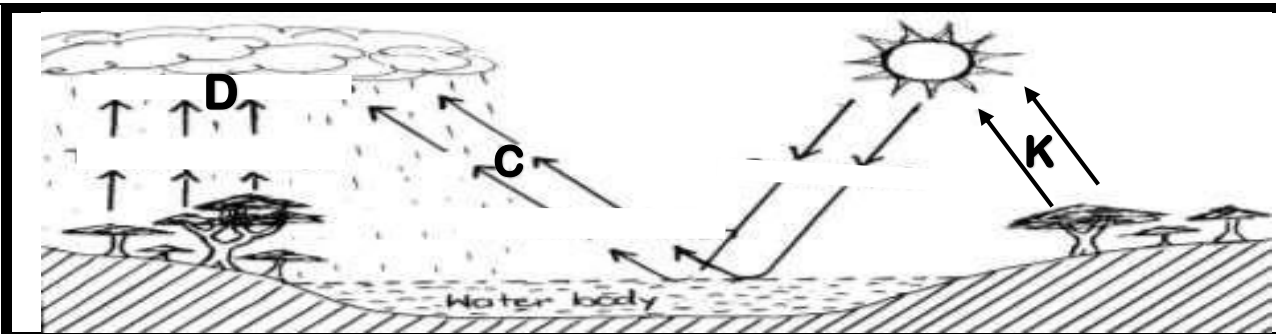
Bubonic plague

Relapsing fever

River blindness

Typhus fever

44 The diagram below shows the formation of a given type of rainfall. Use it to answer the questions.



(a) Name the type of rainfall shown above.

**Convictional rainfall**

(b) Name the process taking place at C and D.

C – **Evaporation**

D – **Condensation**

(c) State the function of the sun in the formation of rainfall shown above.

**The sun heats both water bodies and forests to cause evaporation and transpiration**

45

(a) Write any two importance of soil.

- It keeps water for plants
- It contains air that living organisms need
- Soil is used for growing crops
- Soil is used foe modeling
- Soil is used for construction
- Soil holds plants firmly

(b) Give any two characteristics of loam soil.

- It is dark in colour
- It has a mixture of clay and sand particles
- It is the richest in humus

P3

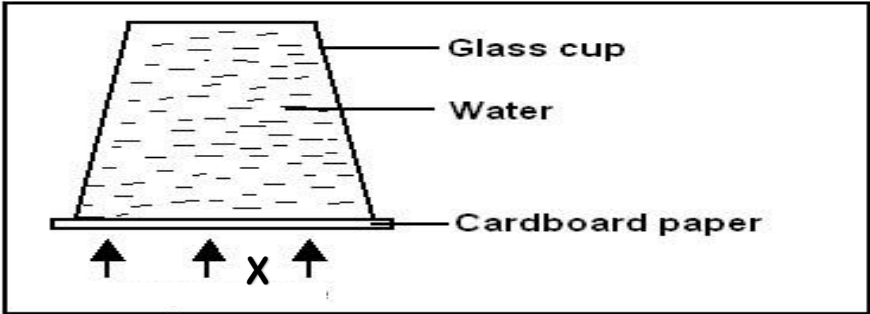
**Soil**

**1**

46

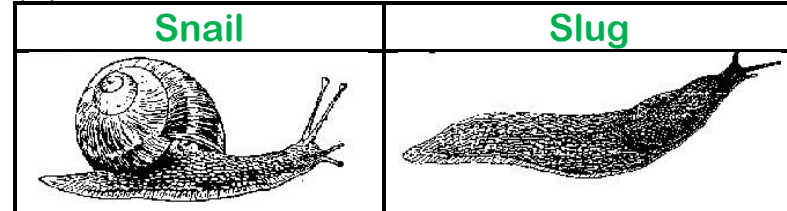
(a) State any two ways of managing natural changes.

- Preserving swamps

	<ul style="list-style-type: none"> <li>-Avoid burning bushes</li> <li>-Covering gullies with stones</li> <li>-Use of proper farming methods</li> <li>-Avoid throwing things which do not rot</li> </ul> <p>(b) Mention any two uses of oxygen in the environment.</p> <ul style="list-style-type: none"> <li>-For burning</li> <li>-For respiration</li> <li>-For germination</li> </ul>			
47	<p>The experiment below shows a given property of air. Use it to consider the questions that follow.</p>  <p>(a) Identify the property of air shown by the experiment above.  <b>Air exerts pressure</b></p> <p>(b) Name the component represented by letter X.  <b>Air pressure</b></p> <p>(c) Give the meaning of the term wind.  <b>Wind is the moving air</b></p> <p>(d) Mention any one use of wind to farmers.  <ul style="list-style-type: none"> <li>-Wind help farmers to winnow their farm cereals</li> <li>-Wind help farmers in pollinating farmer's crops</li> </ul> </p>			
48	<p>(a) State any two reasons why animals move.</p> <ul style="list-style-type: none"> <li>-To look for food</li> </ul>	P3		2

- To look for their young ones
- To look for jobs in case of people
- To look for their mate

(b) Name the animals drawn in the boxes below.



49 (a) Write the part of a fish which has the same function with that of a human nose.

Nostrils

(b) State one way how important is a lateral line to a fish.

Lateral line is used for detecting movement in water

(c) Mention any two uses of fish to man.

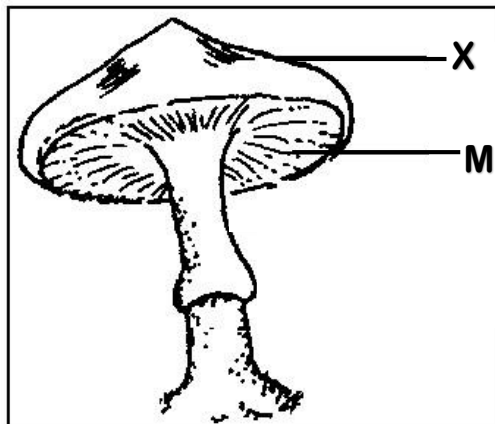
-Fish are sold to get money

-Fish are source of proteins in our diet

-Fish bones are used for making glue

P3

50 The diagram below is a mushroom. Use it to answer the questions that follows.



Name the parts labeled X and M.

	<p>X – Cap M – Gills</p> <p>(b) State the difference between part M of the above mushroom and gills of fish. Part marked M is used for reproduction while gills of a fish is used for breathing</p> <p>(c) Write two examples of fungi you know.</p> <ul style="list-style-type: none"> <li>-Mushrooms</li> <li>-Toadstools</li> <li>-Puffballs</li> <li>-Oyster</li> </ul>			
51	<p>(a) State the disease which affects banana plantation. Panama</p> <p>(b) Give any two ways how important is crop rotation to a crop farmer.</p> <ul style="list-style-type: none"> <li>-It helps in controlling pests and diseases</li> <li>-It helps in maintaining soil fertility</li> </ul> <p>(c) Give the meaning of the term soil fertility. Soil fertility is the ability of soil to support plant growth</p>			
52	<p>(a) Mention any two examples of non-infectious diseases.</p> <ul style="list-style-type: none"> <li>-Marasmus</li> <li>-Asthma</li> <li>-Cancer</li> <li>-Stroke</li> <li>-Heart attack</li> <li>-Goitre</li> <li>-Allergy</li> <li>-Kwashiorkor</li> <li>-Mental illness</li> <li>-Sickle cells</li> </ul> <p>(b) State the difference between infectious and non-infectious diseases.</p>			

	<p>Infectious diseases are diseases that spread from one infected person to another while non-infectious diseases are diseases that do not spread from one person to another</p> <p>(c) Write any one example of infectious disease you know.</p> <ul style="list-style-type: none"> <li>-Chicken pox</li> <li>- Tetanus</li> <li>-Dysentery</li> <li>-Rabies</li> <li>-Polio</li> <li>-Mumps</li> <li>-Whooping cough</li> <li>-Influenza</li> <li>-Cholera</li> </ul>			
53	<p>Write the 4Fs in their proper order.</p> <ul style="list-style-type: none"> <li>-Feaces</li> <li>-Flies</li> <li>-Food</li> <li>-Fingers</li> </ul> <p><b>Related content</b></p> <p><b>Ways how to control the germs at different stages of 4Fs</b></p> <p><b>(i) Feaces</b></p> <p>Put all the feaces in the latrine</p> <p><b>(ii) Flies</b></p> <p>Spray the flies using insecticides</p> <p><b>(iii) Food</b></p> <p>Re-heat leftover food</p> <p><b>(iv) Fingers</b></p> <ul style="list-style-type: none"> <li>-Wash the hands with soap and clean water before eating</li> <li>-Wash the hands with soap and clean water after visiting latrines</li> </ul>			



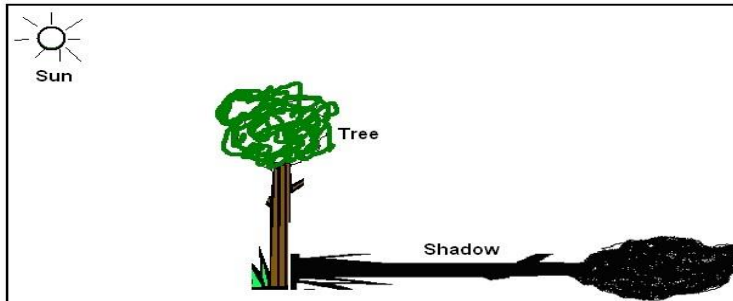
Write the 3Ds in full

D – Diarrhea

D – Dehydration

D- Death

54 Study the experiment below about formation of a shadow and use it to answer the questions below.



(a) In the box above, draw the image of a shadow.

(b) State the reason why you have drawn the shadow on that side you have chosen.

-Shadows are usually formed in the opposite direction of the sun

-The sun's rays have been blocked or obstructed by the tree

(c) Give any one reason why shadows are always short in the afternoon.


The sun is directly above the objects

(d) Write the name given to the lighter part of a shadow.

Penumbra

Note: The darkest part of the shadow is umbra


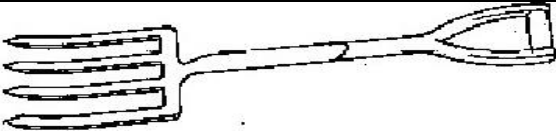

55 The table below shows uses of different garden tools. Draw and name tools for the written uses / functions.

A		For collecting / gathering rubbish
	Rake	

P4

Growing crops

1

B	 sickle	For cutting gras				
C	 Garden fork	For turning manure				
D	 Wateringcan	Watering crops				

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