

Ensures Distinction

in

History & Geography and Science (Examination Papers)

Grade 6

History & Geography : Model 1

Page 1 Question 1:

1. **A** plantation agriculture
2. **B** Reunion
3. **C** Sir John Shaw Rennie
4. **B** Dodo
5. **D** floods
6. **B** Bel Ombre
7. **A** Labour
8. **A** Aapravasi Ghat

Question 2:

- a) Van der Stel
- b) Madagascar / Mozambique / Senegal / India
- c) They cleared the forests. / They planted sugarcane. /
They built the harbour and roads. /
They load and unload goods on ships.
- d) Phoenix
- e) Because they were punished for small mistakes. /
They had to work from morning till night.

Question 3:

Sources	Water Pollution	Air Pollution
Oil spillage by ships/boats	✓	
Smoke coming out of vehicles		✓
Dust from stone crushers		✓
Dumping in rivers	✓	
Burning of dry leaves		✓

Question 4:

- a) The Aapravasi Ghat
- b) The Indian immigrants
- c) They cleared the land. / They removed weeds. /
They removed rocks. /
They planted and harvested sugarcane.
/ They worked in sugar mills.
- d) Construction sector / Textile industry / Printing press

Question 5:

Achievements	Name of personalities
Helped the people of Mauritius to obtain independence.	Sir Seewoosagur Ramgoolam
Built the first sugar mills in Mauritius.	Mahe de Labourdonnais
Expanded the sugar industry in the 18th century.	Sir Robert Farquhar
Helped the children of the ex-slaves to be educated.	Reverend Jean LeBrun
Became the first Governor General of Mauritius.	Sir John Shaw Rennie

Question 6:

- a) Grand Port
- b) Many ship from Europe came to trade. /
They sold and exchanged goods with the traders.
- c) (i) It was a good stop over for European sailors.
(ii) Many ships coming from Europe and even America came to exchange their goods at Port-Louis.
- (d) (i) The Battle of Grand Port
(ii) The French

Question 7:

- a) (i) 42 sugar mills.
(ii) To reduce the cost of production. / Because machines took over the jobs that were done by humans and animals.
- b) (i) Rhum / Bioethanol (ii) Terra

Question 8:

- a) Because volcanic eruptions cause harm the people and to the environment.
- b) Lava, ash, dust, cinders and volcanic bombs.
- c) The hot lava.
- d) Because the gases and ash were reducing the visibility.

Pg 13 Question 1:

- | | |
|---------------------------------------|------------------------|
| 1. C 1835 | 2. C commercial |
| 3. B Sir Seewoosagur Ramgoolam | 4. C Médine |
| 5. B Madras | 6. D Green |
| 7. A Port Louis | 8. D Java |

Question 2:

Description	Natural Hazard
Giant waves causing destruction.	tsunami
A long period without any rain.	drought
Eruption of gases, ashes and lava.	volcano
Continuous heavy rain.	torrential rain
The violent shaking of the Earth's surface.	earthquake

Question 3:

- In December 2019.
- To enjoy longer hours of sunshine. /
To enjoy the sea, sun and sand for longer hours..
- Grand Baie / Flic en Flac / Bel Ombre / Belle Mare
- They create jobs in the tourism sector. /
They bring in foreign currency.
- Because nautical activities can cause damage to coral reefs. /
Because nautical activities affect marine life.

Question 4:

- Malaria / Cholera / Smallpox / High fever
- There were no proper drainage and canals.
- In 1864
- Plaine Wilhems
- Fountains and reservoirs were built to provide clear drinking water. / Hospitals and dispensaries were built.

Question 5:

- Reverend Jean Lebrun.
- Because the schools were very far away. /
Because there schools were only found in Port Louis.
- Education is free. /
Free textbooks are provided to all primary students.

Question 6:

- The Dodo
- The three palm trees represent the three dependencies of Mauritius.
- The Star and Key of the Indian Ocean.

Question 7:

- Free workers.
- Guangzhou.
- They provided credit facilities to the indentured labourers. /
They sold their goods to the indentured labourers.
- Kwan Tee Pagoda near Cassis.

Question 8:

- Agricultural land use.
- Industrial land use.
- A plot of land that has been abandoned by its owner is known as wasteland.
- Forests provide oxygen. /
Forests purify the air we breathe. /
Forests are the habitats of animals and plants.

History & Geography YEAR 2017

Pg 49 Question 1:

- D** Bel Ombre
- C** Labour
- B** Black River Gorges National Park
- C** an earthquake under the ocean
- D** agricultural land use
- A** clear and calm
- D** slaves
- B** Plaine Wilhems

Pg 51 Question 2:

a)

Caused by weather and climate	Caused by movements within the earth
torrential rains	volcanoes
tropical cyclones	earthquake

- (i) In winter
(ii) 100 / 12
- (i) floods / landslides / soil erosion
(ii) We may fall into the river. /
We may get carried away by the force of river water.

Question 3:

- Place X
- (i) Malaria / cholera / small pox/ high fever
(ii) Because of the marshes which attract mosquitoes.
- To evacuate the dirty water from the marshes.
- To transport sugarcane to the sugar mills.

Question 4:

- (a) They planted sugarcane. / They harvested sugarcane. /

They cleared the forests.

(b) To do the household chores.

(c) They loaded and unloaded goods from ships.

2) (a) Calcutta / Kolkata

(b) To work on the sugar estates. /

Because slavery was abolished.

(c) They set up shops on the island.

Question 5:

a) Agricultural land use

b) Because hotels have been built in coastal areas.

c) Forests are the habitats of animals and plants. /

Forests help to maintain the composition of air constant.

d) (i) Wasteland is a plot of land that has been abandoned by its owner.

(ii) It attracts harmful insects such as mosquitoes.

Question 6:

1. a) Agricultural land use / Infrastructural land use

b) Because of the increasing number of vehicles in the island.

2.

Sugar cane products	Used for
refined sugar / special sugar	Cooking and making sweets
Molasses	Rhum and bioethanol
Bagasse	Electricity

3. Organic farming.

History & Geography YEAR 2018

Pg 60 Question 1:

1. C Recreational

2. B Relief

3. B Van Der Stel

4. A Summer

5. D 100

6. C 1810

7. D Trochetia

8. B Mahebourg

Question 2:

a) (i) Terra / Alteo / Omnicane

(ii) Muscavado / Demerara / Golden Caster

(iii) Bagasse

b) (i) Centralisation

(ii) To reduce the cost of production. /

The price of sugar fell on the world market.

Question 3:

Item	Biodegradable	Non-Biodegradable
Tyre		✓
Banana peel	✓	
Plastic bottle		✓
Wooden table	✓	
Newspaper	✓	
Aluminium can		✓

Question 4:

a)

Role on the Island	Place of Origin
Free workers	Bengal
Slaves	Madagascar
Settlers	Britain

b) They tilled the land. / They removed rocks. / They planted and harvested sugarcane.

c) 1. Slaves were not paid whereas indentured labourers were paid for their jobs. /

2. Slaves were given manioc as food whereas indentured labourers were given rice, dholl and salted fish as food.

Question 5:

a) (i) An earthquake is caused by movements that take place within the earth.

(ii) Because there was the risk of having a tsunami.

b) (i) 155 km.h.

c) (i) We should not venture near rivers. /

We should not go near flooded areas. /

We should stay indoor.

(ii) Because of climate changes. /

Because of infrastructural development.

Question 6:

a) Union Jack / Sir John Shaw Rennie / Sir Veerasamy Ringadoo

b) (i) The golden sunshine. / The bright future of the country.

(ii) The National flag develops a sense of belonging and citizenship to one's country.

c) Rodrigues / Agalega / Chagos Archipelago

Question 7:

a) (i) The Slave route monument.

(ii) The mountain is a symbol of the slaves' fight for freedom and their sacrifices.

b) Because there are many religions in Mauritius and people live in peace and harmony.

c) To remind us of our ancestors. /
For our future generation to benefit.

History & Geography : YEAR 2019

Pg 73 Question 1:

1. C Recreational 2. B mixed farming
3. D national parks
4. D two different parts of the Earth collide
5. A Rs 5 6. B 1810
7. D Sir Veerasamy Ringadoo

Question 2:

1. a) wave / earthquake
b) Because Area X is found near the coast.
2. a) (i) Bella
(ii) South East
b) High temperature at sea.
c) We should boil water before drinking. /
We should not touch fallen electric wires.

Question 3:

- a) (i) Accept answers from 31000 to 33000 hectares.
(ii) To work on the sugar estates.
- b) An immigrant is someone who leaves his native country and comes to settle in a new country.

Question 4:

- a) (i) Canton / Guangzhou
(ii) cobblers / blacksmith / carpenters / tailors
- b)(i) Near sugar estates
(ii) They sold their articles to the indentured labourers. /
They provided credit facilities to the indentured labourers

Question 5:

- a) (i) Residential land use
(ii) B4
(iii) Because there is a nature park in section D4.
- b) To build houses due to the increasing population. /
To build offices and industries for economical development.

Question 6:

- a) (i) Dodo / Sambur Deer
(ii) Star and Key of the Indian Ocean
(iii) The three palm trees.
- b) The Coat of Arms represents a symbol of a country.
It distinguishes a country from others.

Question 7:

- a) (i) Air pollution
(ii) It can cause respiratory problems. /
It can affect the eyes, lungs and skin.
- (iii) The chimneys of factories must have air filters.
- b) (i) Food wastes / garden wastes
(ii) Household waste can be used to make compost.

Question 8:

Name	Place	Importance
Slave Route Movement	Le Morne	<u>It reminds us of countries where slaves were brought from.</u>
François Leguat Monument	Port Mathurin / Rodrigues	It reminds us of the first settlement in Rodrigues.
Aapravasi Ghat	Port Louis	It reminds us of the arrival of the Indentured labourers in Mauritius.
Fort Frederik Hendrik Museum	Vieux Grand Port	It reminds us of the Dutch settlement in Mauritius.
Monument at Pointe Canon	Mahebourg	It reminds us of the abolition of slavery in Mauritius.

History & Geography : YEAR 2020

Question 1

1C 2D 3B 4D 5C 6A 7A

Question 2

1. (a) summer
(b) Y
(c) The weather is calm and sunny.
(d)(i) store food and water.
(ii) consolidate houses OR Listen to the meteo bulletin
OR buy some candles.
2. (a) It causes harm to people and the environment.
(b) It attracts tourists. OR It provides more land.
3. (a) 1st February
(b) (i) Madagascar (ii) mozambique
(c) (i) buy land (ii) wear shoes
4. (a)(i) Market gardening
(ii) Yo get water to irrigate crops easily OR
The presence of fertile soil.

(b) It causes less pollution by the use of less pesticides.

OR It is better for health.

(c) We can control pest easier OR
We can regulate the temperature.

5. (a) Using food waste ... --- Making compost
Reusing plastic bottles --- growing flowers and herbs
(b) Excessive use of pesticides and fertilisers can cause air and water pollution.
On windy days they can be carried by wind and on rainy days they can be carried away by rain water.

6. (a) Malaria
(b)(i) Because of poor hygiene or sanitary problems
(ii) lack of water OR overcrowded house OR lack of medicines.
(c) Building of health centres OR Building of fountains

7. (a)(i) yellow (ii) green
(b) Blue represents the Indian Ocean.
(c) It represents the people and sovereignty of Mauritius.
(d) Jean Georges Prosper

History & Geography : YEAR - 2022

Pg 96 Question 1

- a) D b) B c) C d) B e) A f) C g) A

Question 2

- a) Pastoral farming
b) i) Market gardening is the cultivation of food crops and flowers for sale.

ii) 1. chillies 2. Carrots 3. Onions 4. Cabbage
iii) The land is fertile.
There is a stream which can provide water for irrigation.
c) Terraces have been cut to facilitate the growth of crops.

Question 3

- a) Glass bottles – food waste – metal cans
b) 1. Dumping of waste can attract mosquitoes and other harmful insects which can cause harm to our health
2. It can become an eyesore to the environment.
c) Plastic bags take a lot of time to decay. As such it causes pollution to the environment. To prevent pollution, plastic bags have been banned.

Question 4

- a) i) Clearing of land and cultivating food crops.
ii) Building of roads and important buildings.
b) Their masters did not treat them well.
They were punished for any simple mistakes.
c) Maroon slaves
d) In deep forests, caves and on high mountains.
e) Some became farmers. They grew crops for sale.
Some became fishermen.

f) 1st February.

Question 5

- a) False b) True c) False d) True e) True f) False

Question 6

- a) i) summer ii) heavy – suddenly
b) 1. Because of climate change.
2. The development of urban areas and infrastructure.
c) 1. Earthquakes 2. Cyclones

Question 7

- a) i) Prime Minister
ii) Champs de Mars
iii) autonomy
b) i) Aapravasi Ghat
ii) The arrival of indentured labourers
iii) Natural History Museum
iv) To commemorate important people and events in the past.

History & Geography : YEAR - 2023

Question 1:

- (a) D (b) C (c) D (d) B (e) C (f) B (g) D

Question 2

- (a) (i) February (ii) Daniella (iii) Claudette
(b) As it occurs naturally and causes harm to people and the environment, a tropical cyclone is considered as a natural hazard.
(c) When gusts of 120 km/h or more are occurring over the island.
(d) 1. Clear sky 2. Calm weather

Question 3:

- (a) (i) Port Louis (ii) 2nd November
(b) Bombay / Calcutta / Madras
(c) 1. clear the land.
2. remove the rocks / plant and harvest the sugar cane

Question 4:

- (b) True (c) False (d) False (e) True (f) True

Question 5:

1. (a) (i) Shade Grande Montagne
(ii) Water is readily available for irrigation and alluvial land is fertile.
(b) The Government provides
1. seeds for asparagus bean, bean, cucumber, lettuce, squash and tomato
2. regular fruit fly control on crops
3. veterinary advices and services such as vaccines
4. scheme to promote bio-farming (organic agriculture)
2. (a) 2002 (b) Solitaire (c) St Gabriel Church

Question 6:

- (a) Vieux Grand Port
- (b) To preserve and protect valuable objects of the past and help us to learn about Dutch settlement
- (c) National History Museum / Natural History Museum
- (d) building – paintings

Question 7:

- (a) (i) star (ii) deer/ stag (iii) Republic
- (b) The Coat of Arms shows the national symbols of one's country which inspire and instill a sense of pride and honour in the people of the country.
- (c) the agriculture of the island

Science : Model 1

Pg 7 : Question 1

- 1. **C** bagasse
- 2. **D** silk
- 3. **B** Dolphin
- 4. **B** pushes the juice up the straw.
- 5. **C** milk

Question 2

- 1. (a) Oxygen
- (b) Candle 4
- (c) Because the jar on Candle 4 contains the least amount of oxygen.
- 2. (a) Smoke from vehicles. / Smoke from factories. / Dust from stone crushers. Burning of wastes. / Burning of fossil fuels.
- (b) To protect themselves from lung diseases/skin diseases/lung cancer.

Question 3

- 1. (a) Soil erosion / Landslides / Severe droughts / Floods / Rise in air temperature
- (b) The amount of carbon dioxide will increase in the air. / There will be more carbon dioxide than oxygen in the atmosphere.
- (c) Trees provide food to people. / Trees provide building materials to people. / Trees provide
- 2. (a) (i) incisors / front teeth
- (ii) milk / baby
- (b) We must brush our teeth twice daily. / We must eat less sweets and chocolates. / We must visit the dentist regularly.
- 3 (a) star (b) night (c) Jupiter (d) moon (e) year

Question 4

- 1. (a) Copper / Aluminium
- (b) It is a good conductor of electricity.

(c) Because plastic is a good insulator. / Because plastic prevents the flow of electricity.

- 2. (a) Aluminium
- (b) Wood
- (c) Aluminium does not rust but iron rust.
- 3. Rubber is elastic. / Rubber is shock resistant. / Rubber is durable.

Question 5

- (a) Renewable energy are sources of energy which can be naturally replenished. / Renewable energy are sources of energy that will never run out.
- (b) Wind energy
- (c) Because burning of fossil fuels cause lot of pollution. / Because fossil fuels will run out one day compared to renewable sources of energy.

Question 6

- (a) Forest / Desert / Mountain / Grasslands
- (b) (i) Zebra (ii) Gazelle
- (c) Lion – predator Vulture – prey
- (d) Grasses uses sunlight to produce their food.

Science : Model 2

Pg 18 : Question 1

- 1. **B** 20
- 2. **C** heat and light
- 3. **D** Iron
- 4. **C** Practising physical exercises regularly.
- 5. **A** Air dissolved in water.

Question 2

- 1. (a) Gas 1: Oxygen Gas 2: Carbon dioxide
- (b) Plants will absorb the excess carbon dioxide and release oxygen in the atmosphere during the day.
- (c) The amount of carbon dioxide will increase in the air. / There will be more carbon dioxide than oxygen in the atmosphere.
- (d) (i) The flame will go off.
- (ii) The oxygen supply is cut off. / The lid will stop the supply of oxygen.
- (iii) The water will evaporate and the flame will spread over.
- (e) (i) The balloon will burst.
- (ii) The air pressure inside the balloon will be greater than outside.

Question 3

- 1. (a) South America
- (b) The region is developing fast. / For infrastructural purposes. /

For agricultural purposes.

- (c) Laws have been passed to protect forests. /
People were no longer allowed to cut down trees.
- (d) Soil erosion / landslides / floods

- 2. (a) Aluminium
- (b) Chemical energy
- (c) Aluminium is light. / Aluminium does not rust.

Question 5

- (a) They are both mammals.
- (b) They both reproduce by giving birth to young ones. /
They both feed their young ones with milk.
- (c) They both lay eggs.
- (d) They both can fly.
- (e) They are both carnivores

Question 5

- (a) growth (b) carbohydrate (c) protein
- (d) balanced (e) pulses

Question 6 (7 marks)

- (a) Chemical energy
- (b)

Input	Turbines	Electrical Wires	Output
Heat energy	Movement energy	Electrical energy	Heat/light/movement energy

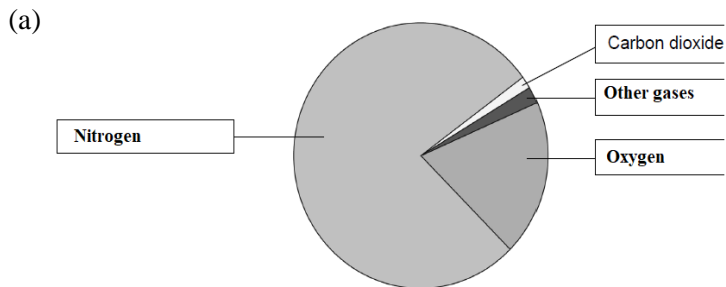
- (c) Electricity can be produced all year round.

Science 2017

Pg 55 Question 1

- 1. **B** Fish
- 2. **C** mammals
- 3. **A** Plastic
- 4. **B** Coal
- 5. **D** Mangroves

Question 2



- (b) (i) Amount of oxygen: decreases
Amount of carbon dioxide: increases
- (ii) The fame will go off. / It will extinguish.

- (iii) The burning candle will use up all the oxygen in the jar.
/ The carbon dioxide produced will extinguish the flame.

Question 3

(a)

Body covered with hairs	Body covered with feathers	Body covered with scales
dog	parrot	crocodile
rabbit	duck	fish

- (b) A – molar
B – pre molar
C – canines
D – incisors
- (b) (i) permanent teeth
(ii) Because only adults with permanent teeth have canines.
/ Because an adult has 16 permanent teeth in one jaw.

Question 4

- (a) (i) source (ii) movement (iii) dry
- (b) (i) Silk clothes are more durable than cotton clothes.
(ii) Cotton clothes are cheaper than silk clothes.

Question 5

- (i) fertile soil / water / suitable temperature
- (ii) To compare the observations made on the two plants. /
To know whether the results obtained are due only to a lack of sunlight.
- (iii) Plant A: It withers / It dies
Reason: Since the plant did not receive sunlight, it will not produce its own food.
- (iv) Plant B: The plant continues to grow. /
It grows bigger with more leaves.
Reason: The plant is getting all the conditions needed to grow well.

Question 6

- (a) (i) To represent the sun/sunlight.
(ii) X-day Y-night
(iii) No
Because the rotation of the earth on its own axis causes day and night.
- (b)(i) fungi / nuts
(ii) air / water
(iii) The fox will no longer have food to eat. /
To ecosystem will collapse.

Science 2018

Pg 66 Question 1:

- 1. A permanent teeth

2. **D** 1 year
3. **C** Sun
4. **D** less electricity is produced when there is less sunlight
5. **B** The air pressure outside the suction cup is greater than the air pressure inside it.

Question 2:

- a) To grow up. / Because milk is a food for growth.
b)

	Food for growth only	Food for energy only	Food for health only	Balanced meal
Kelly	✓	✓	✓	✓
Sam	✓			
Mira		✓		

c)

Hairs	Scales	Feathers
deer	crocodile	pigeon
bat	goldfish	kestrel

Question 3:

- a) (i) photosynthesis (ii) carbon dioxide / oxygen
(iii) chlorophyll
b) (i) 1. 10 cm
2. On Day 0, all three plants would be of the same height. / On Day 0, the three plants would not grow.
(ii) 16 cm
(iii) The more water a plant receives, the quicker it will grow.
c) The composition of air does not remain constant. / Deforestation causes soil erosion.

Question 4:

a)

Object	Property of the material which makes it suitable to make this object
Aluminium window frame	Aluminium does not rust.
Wooden spoon	It is hard and durable.
Rubber tyre	It is shock resistant. / It is durable.
Iron nail	It is hard.
Plastic raincoat	It is impermeable.

- b) (i) 5 minutes
(ii) Nylon
(iii) Nylon does not absorb water well.
c)(i) Iron
(ii) Air and water
(iii) A red-orange-brown layer is formed.

Question 5:

- a) (i) Coal
(ii) Bagasse
(iii) During droughts, there will be less or no water to turn the turbines to produce electricity.
b) Green sources of energy are clean and have less negative impact on the planet.
c) Plastic bags take many years to decompose.
d) Recycling

Question 6:

- a) (i) Smoke coming out of vehicles. / Smoke coming out from factories.
(ii) Because they could suffer from respiratory diseases / lung cancer / skin diseases.
b)(i) 1. Jar B
2. There is more carbon dioxide under Jar B that will extinguish the flame.
(ii) 1. The level of oxygen will decrease.
2. Because oxygen is used up during burning.
c) Animals take in oxygen and release carbon dioxide in the atmosphere.

Science 2019

Pg 79 Question 1:

1. **B** Carbon dioxide
2. **D** 32
3. **C** 21.0%
4. **D** Silk
5. **A** They have feathers on their body.

Question 2:

- a) Bread and butter - Provide energy for activities
Fish and lentils - Provide materials for growth
Cucumber and carrots - Provide vitamins for health
b) Carnivores – fish / meat / animals
Omnivores – seeds / plants / meat
c) Body covering / Movement

Question 3:

- a) (i) solar (ii) moon (iii) Earth (iv) sun
b) One complete rotation of the earth around the sun.
c) There is water and air. / It is at the right distance from the sun.
d) (i) Global warming is the gradual increase in the temperature of the earth's atmosphere and oceans.
(ii) Burning of fossil fuels / Forest fires / Deforestation
(iii) Rise in sea levels / Melting of icebergs
e) (i) It is easy to separate the wastes for recycling.
(ii) Wastes from plants can be buried to make compost.

Question 4:

- a) turbine / generator
- b) (i) Renewable energy is energy that can be naturally replenished and can be used again and again.
(ii) Non-renewable energy is energy that will run out one day
- c) (i) Falling water / bagasse / wind
(ii) Heavy oil
- d) It reduces pollution. /
It maintains the oxygen carbon dioxide cycle constant.

Question 5:

- a) (i) Tissue paper
(ii) Plastic sheet – Because it is impermeable.
- b)

Material	Advantage	Disadvantage
Iron	It is hard / strong.	Iron rusts when exposed to air and water.
Wood	It is strong and durable.	It deteriorates when exposed to sun and water.
Glass	Glass is transparent and impermeable.	Glass is fragile.

- c) By painting / galvanising / greasing.

Question 6:

- a) snail – lettuce – soil
- b) soil
- c) (i) Photosynthesis
(ii) Photosynthesis is the process where plant takes in carbon dioxide from the air, water and minerals from the soil and chlorophyll from the leaves to manufacture its food in the presence of sunlight.
- d) A forest ecosystem is a large area of land covered with trees where living and non-living things are present.
- e) (i) The dust from the stone crusher blocks the pores of the leaves.
(ii) This will cause soil erosion. / landslides / increase in carbon dioxide in the atmosphere

Science 2020**Question 1**

1B 2A 3C 4A 5D

Question 2

- (a)(i) beans, peas, pulses, soya, yogurt or lentils
(a)(ii) Maintain a good health
- (b)(i) Molar, incisor, canine
(ii) Incisor
(iii) Brush teeth regularly

- (c) They eat only grass and they don't not tear/eat meat.

Question 3

- (a)(i) Oxygen (ii) Nitrogen
- (b)(i) Air pollution occurs when there is the presence of harmful substances in air.
(ii) 1. Smoke from vehicles OR
Fumes from the exhaust pipe of the bus.
2. Uncovered bins OR bad smells from uncovered bins
(iii) Cover the bins OR Car pooling OR
The bus should do regular servicing to reduces amount of fumes that are released.
- (c)(i) Carbon dioxide
(ii) Pour water on fire / Cover the fire with sand /
Cover the fire with wet or thick blanket/
remove oxygen / cover with a metal lid

Question 4

- (a)(i) Heavy oil, bagasse, coal or gas
(ii) Get electrical energy all year round or Fuel can be easily stored/transported
- (b) Movement to electrical
- (c)(i) It can be replenished and is exhaustible
(ii) Wind/bagasse/sun
(iii) Due to the low amount of water or low rainfall or less water in rivers, there is less force of falling water to turn the turbine.

Question 5

- (a)(i) Presence of fins and tails
(ii) Whale
(iii) Whale gives birth / Fish lays egg
- (b)(i) Photosynthesis
(ii) Plants use carbon dioxide and water in the presence of sunlight and chlorophyll to make their own food.
- (c) 1. furniture 2. food or wood pulp or medicine
- (d) Plants take in carbon dioxide and releases oxygen and animals take in oxygen and releases carbon dioxide.

Question 6

- (a)(i) Windscreen – glass / Tyre – rubber
(ii) Aluminium is light or does not rust or hard
(iii) Glass is transparent and helps him/her to see through
- (b)(i) Due to the presence of air and water.
(b)(ii) An orange brown layer is formed on the nail. OR
The nail changes colour OR
The liquid changes colour.
- (c) 1. Painting the iron nail 2. Greasing OR oiling

Science 2022**Question 1**

(a) B (b)A (c)A (d) C (e)D

Question 2

- (a) (i) hen – bat- shark
 - ii) 1. Scales 2. Feathers 3. Hairs
 - iii) They both can fly. They both have wings.
 - iv) An aquatic animal which lives only in water.
 - v) Mammals
 - vi) Dolphin gives birth.
- (b) i) A butterfly
 - ii) Insects
- (c) 1. Living things can breathe. 2. Living things grow up.

Question 3

- (a) i) silk – from an animal
 - Iron – from the earth
 - rubber – from a plant
- (ii) To make clothes
- (b) i).....the tyre is R
 - ii) Glass
 - (iii) It is transparent
 - (iv) Steel
 - (v) So that it does not rust.
 - (vi) Because it is impermeable. It is light.
 - It can be easily shaped.
- (c) (i) It causes pollution. (ii) Recycling.

Question 4

- (a) Light energy, Heat energy, Sound energy
- (b) i) Bagasse
 - ii) Solar energy /light energy
 - iii) It is a clean source of energy which does not cause pollution.
- c) i) Global warming
 - ii) Beaches become narrow. There is the risk of beach erosion. People will be likely to relocate themselves at a later stage.
 - iii) Motor vehicles can be equipped with air filters to prevent too much release of carbon dioxide.

Question 5

- (a) An ecosystem is an environment where both living and non-living things co-exist.
- (b) sunlight
- (c) i) photosynthesis (ii) chlorophyll – sunlight
- (d) do not destroy the habitat of the living things.
 - Don't cause pollution of rivers. Do not cut down trees.
- (e) chameleon-grass
- (f) (i) The chameleon will not get food.
 - (ii) The grass also will die eventually if the food chain is broken in the ecosystem.

Question 1: (a) C (b) D (c) C (d) A (e) B

Question 2(a)

Energy : bread, Pasta
Growth : lentils, fish
Health: carrot

- (b) (i) Back teeth (ii) Large and flat (iii) herbivorous
- (iv) Mammals give birth to their young ones. / Mammals feed their young with milk. / Mammals have hairs on their bodies.

Question 3: (a) Nylon – is a special type of plastic.

Gold – is a precious metal used to make jewellery.

Cotton – is obtained from a plant.

Aluminium—is light and is used to make aeroplane.

- (b) (i) It is transparent and allows light to pass through it.
- (ii) It is impermeable.
- (ii) Glass is fragile and breaks easily.
- (c) (i) By painting (ii) By galvanizing

Question 4: (a)

(i) Gas A: Carbon dioxide

(ii) Gas B: oxygen (ii) Sunlight – Chlorophyll - water

(b) Plants provide food to people. / Plants can be used as medicines. / Wood from plants can be used to build houses.

(c) During photosynthesis which occurs during the day, plants take in carbon dioxide and give out oxygen whereas during respiration which occurs at night plants take in oxygen and give out carbon dioxide.

Question 5:

- (a) (i) oxygen (ii) Candle B (iii) As the jar on candle B is smaller, there is less oxygen under it as compared to the two other candles.
- (b) (i) As oil is lighter than water, it will float on the water and will continue to burn.
- (ii) Cover the pan with a metal lid.
- (c) (i) Air pollution occurs when smoke, dust and other harmful gases are released in the air.
 - (ii) Exhaust pipe of vehicles , chimneys of factories, burning of wastes in the open.
 - (iii) Soots block the pores of leaves thus preventing the plants to manufacture their food.

Question 6: (a) The moon

(b) (i) 8 planets (ii) Rotation of the earth

(c) Water is present on earth. / Oxygen is present in the atmosphere.

(d) (i) Waste from plants (ii) Reuse / Recycle (iii) If cells are thrown in the environment, they will pollute the soil and rivers as they contain poisonous substances.

(e) High level of carbon dioxide causes global warming