

## LEVEL UP GRADE 6 - SCIENCE AND HIS/GEO

### SET 1

**Science: Q1** 1. C 2. D 3. C 4. A 5. B **Q2** 1. (a) i. feathers ii. hairs (b) The bird flies whereas the dog walks. 2. (a) Reptiles (b) They reproduce by laying eggs. 3. (a) To bite, cut and tear food. ; To crush food ; To tear food. (b) Pay regular visits to the dentist / Use a soft toothbrush / Replace toothbrush every 3 months / Rinse mouth with water after each meal. **Q3** 1. A: Nitrogen B: Carbon dioxide C: Other gases D: Oxygen 2. (a) Grey ; Grey ; Brown (b) In cup C (c) The iron nail can be painted. / Coat the iron nail with oil or grease it. **Q4** (a) Cotton: To make cotton dresses / To make towels Wood: To make furniture. Rubber: To make car tyres and balloons. (b) i. Silk is a natural fibre produced by silkworms. ii. It is a strong and soft material. / It is a durable material. / It is stretchable. / It absorbs sweat well. (c) Plastic bags contain toxic substances which will contaminate the environment. **Q5** 1. (a) Air pollution (b) Dust from the stone crusher causes air pollution. (c) Dust blocks the pores in leaves thus preventing them from manufacturing their food. **Q6** 1. (a) The amount of carbon dioxide will increase leading to a greenhouse effect. (b) Roots of plants hold the soil firmly to the ground. / Terrace farming reduces the soil erosion. 2. (a) True (b) False 3. The Earth is just at the right distance from the sun so that it is neither too hot nor too cold. / Water, air and soil are present.

**His/Geo: Q1** 1. B 2. A 3. B 4. D 5. C 6. B 7. D 8. A **Q2** 1.(a) Infrastructural (b) Commercial (c) Recreational 2. Because the government needs land for other purposes. / Population growth and development needs cause land to be used differently over time. **Q3** 1.(a) At schools / At Police Station / At the Airport (b) It represents the struggle of freedom and independence. (c) It develops a sense of belonging and citizenship to one's country. 2. To give more autonomy to the people of Rodrigues. **Q4** 1. i. True ii. False iii. True 2. Avoid going near flooded rivers and overflowing bridges. / Do not cross submerged areas either by foot or by vehicles. / In flood prone areas if the water level continues to rise, move to safe place or evacuate the area. / Avoid going near hill or mountain slopes

prone to landslide. / Avoid parking on drains and in underground parkings. **Q5** 1(a) The Dutch (b) Mahé de Labourdonnais 2. Energy / Transport / Indentured labourers to work in the sugarcane cultivations. 3. The taking over of small mills by big mills and its mechanization is the process called centralisation. **Q6** 1. Cucumber / Tomato 2. Sustainable agriculture involves agricultural practices using techniques that protect the environment and public health. 3. Government provides: seeds for asparagus, bean, cucumber, lettuce, squash and tomato. / regular fruit fly control on crops. / veterinary advices and services such as vaccines. / scheme to promote bio-farming (organic agriculture). **Q7** 1. From India 2. Their huts were made of wood and dry cane leaves. 3. i. Five rupees per month for their work. ii. rice, dholl, salted fish and oil 4. They had to: clear the land. / remove the rocks. / plant and harvest sugar cane.

## SET 2

**Science: Q1** 1. D 2. B 3. D 4. A 5. D **Q2** 1. Wool – It keeps our body warm. Gold – It is soft and rare material. Rubber – It is elastic and tough. 2. (a) reptiles (b) gills (c) mammal (d) dolphin (e) butterfly **Q3** 1. (a) Milk (b) Pointy teeth – Canines / Front teeth – Incisors / Back teeth – Molars (c) There are 30 milk teeth whereas there are 32 permanent teeth. / Roots of milk teeth are narrow and roots of permanent teeth are wider. / Milk teeth are smaller in size compared to permanent teeth. / Milk teeth are whiter than permanent teeth. 2.(a) Energy: Pasta / Rice / Bread Growth: milk / eggs / meat Health: lettuce / apple / pumpkin (b) Oily food can cause health problems. / Oily food many lead to obesity. **Q4** 1.(a) Bagasse is obtained as a by-product of sugarcane in the production of sugar. (b) St Louis Thermal Power Station / Fort George Thermal Power Station / Centrale de Nicolay Thermal Power Station / Port Victoria Thermal Power Station (c) Electricity can be produced all year round. 2. (a) Oxygen (b) Carbon Dioxide (c) People can get respiratory diseases. **Q5** 1. (a) Moving the lid back and forth fans the flames and can spread the fire. / This method will provide more oxygen for the fire to burn; thus, the fire will not be extinguished. (b) Cover the pan with a metal lid to cut off oxygen supply. 2. (a) Because

energy from the sun does not cause pollution. / To save foreign currency. 3. (a) Cause: Burning of fuels / Deforestation / Some agricultural practices lead to the release of other global warming gases. Effects: Rise in sea level / Intense heat waves / Flash floods / Droughts / Forest fires / Melting of Arctic sea ice. (b) Not to burn leaves and other domestic things. / Not to throw litter near river sources. / To use eco-friendly detergents. **Q6** 1. (a) The rotation of the Earth on itself causes night and day. (b) The Moon can be seen at different positions and its shape changes. (c) Over a period of 4 years, each  $\frac{1}{2}$  day will be come to a full day. So, every four years, one whole day has to be added. 2. (a) Forests purify the air. / Reduce the level of carbon dioxide and produce oxygen. (b) The coastal region will be further affected. / More trees will be uprooted. / Our beaches will become narrow.

**His/Geo: Q1** 1. C 2. D 3. B 4. A 5. C 6. A 7. C 8. A **Q2** 1. B 2.(a) A sailing ship (b) It symbolises the strategic importance of the island. (c) i. sugar cane ii. To indicate the importance of sugar for the local economy. **Q3** 1.i Canton ii. increased 2.(a) hats, bicycle repair items (b) They provided credit facilities to indentured labourers. **Q4** 1. Q.De Flac / Q.De Moca / Q. De La Poudre D'or / Q.Des Pamplémousses / Q.De Plaines De Villem / Q.De Mont Longue / Q.De Riv. Du Rempart 2. Pamplémousses – A fruit; Arsenal – A powder mill; Mahebourg – A French governor; Plaine Wilhems – A German settler. **Q5** 1. **A:** Médine **B:** Alteo (FUEL) 2. (a) Muscovado / Demerara / Golden Caster (b) To make cakes. / To make biscuits. (c) Bagasse is burned to produce electricity in thermal power stations. 3. On the flat and undulating land of our plains and on the Central Plateau. **Q6** 1. Flash floods are natural hazards which can cause much damage to the people and the environment. 2. Because of climate change. / Because of development of urban areas and infrastructure. 3. Flash floods – unpredictable / localized; Torrential rains - period of 12 hours / widespread **Q6** 1.(a) Dutch Governor Van Der Stel (b) The Dutch needed labour force for the cutting down of ebony trees. / For loading ships with ebony trees. 2. (a) To commemorate the abolition of slavery. (b) It symbolizes the

freedom of the people who had been chained and ill-treated for years on the estates.

### SET 3

**Science: Q1** 1. A 2. D 3. C 4. D 5. A **Q2** Tom : True / Premolars are present only in a set of permanent teeth. Adrien: False / Adults have 16 permanent teeth in each jaw. Melissa: True / Eating too much chocolates can cause tooth decay and cavities. **Q3** 1.(a) Herbivorous: sheep / horse Carnivorous: Kestrel / Lion Granivorous: Hen / Pigeon (b) i. An animal that eats both meat and plants. ii. pig / dog / bird / human beings 2.(a) A balanced diet contains at least one food item from each food group. (b) To stay healthy and strong. / To help the body grow, repair tissues, and fight diseases. **Q4** 1. (a) i. Sun ii. renewable source of energy (b) Electricity is not produced at night. / As solar panels are in a fixed position, production of electricity is reduced. 2. (a) A (b) i. The plant would die. ii. The plant would not get sunlight to produce its food and would therefore die. **Q5** 1. (a) Sleeping – Least oxygen / Playing – More oxygen / Drawing – Less oxygen (b) Energy helps to keep our body warm. / Energy helps all our organs to work properly. 2. (a) B (b) i. To allow a continuous flow of air. ii. Animals need oxygen to survive, without oxygen they will die. **Q6** (a) i. coal / heavy oil / natural gas ii. water (b) Hydro is a clean source of energy; it does not cause pollution. / A hydro power station does not produce waste by-product. (c) It is the gradual increase in the average temperature of the Earth's atmosphere and its oceans.

**His/Geo: Q1** 1. C 2. D 3. A 4. D 5. B 6. D 7. A 8. B **Q2** 1. A: Agriculture B: Build-up Areas C: Roads 2. Wastelands 3. Rubbish thrown in neglected land / An abandoned sugarcane field 4. Forests provide shelter for endemic animals and plants. / Forests maintain the composition of the air. / Forests give us oxygen and purify the air. **Q3** 1. (a) along the coast (b) Flic en Flac 2. Because of its hotels, restaurants, night clubs and shopping mall. / Because of access to leisure activities. 3. Tourism brings in foreign currency into our country. / Tourism creates and maintains jobs. **Q4** (a) X: Mumbai / Bombay Y: Chennai /

Madras (b) i. False ii. True iii. True (c) Aapravasi Ghat / Immigration Depot (d) To work in sugar cane plantations after the abolition of slavery. / Because there was a shortage of labour after slavery was abolished. **Q5** 1. 19<sup>th</sup>; Britain; 1835 2. Agaléga / Seychelles 3. Wreaths are laid at the foot of the monument. / Cultural shows and exhibitions are organised. **Q6** 1. Polluted water may cause the death of marine animals and plants in their living environment. 2. The factories must improve their filtration systems. / The factories must switch from fossil fuels to natural gas. **Q7** 1. January 2. (a) The eye (b) Calm with no rain 3. Tropical cyclones form over the ocean when the temperature of sea water is high.

#### SET 4

**Science: Q1** 1. B 2. C 3. A 4. B 5. C **Q2** 1. (a) X- Oxygen / Y – Carbon dioxide (b) The process whereby the leaf takes in oxygen through pores and releases carbon dioxide day and night is called respiration. 2. (a) A: Incisor B: Molar C: Canine (b) He needs to pay regular visits to his dentist. / He needs to eat less sweets./ to limit eating snacks. / He should use a soft toothbrush and replace his toothbrush every 3 months. / He should rinse his mouth with water after each meal. **Q3** 1. (a) True (b) False 2. (a) diseases (b) smoke (c) air filters 3. (a) Seeds germinate to produce new plants. / Seeds store food for the plant. (b) Water / Air / Suitable Temperature 4. (a) Meat and chicken (b) Farata and Noodles (c) Watercress and strawberry **Q4** (a) i. Tiger / Crocodile / Whale ii. Echo Parakeet (Note: Koi Fish is omnivorous) (b) It takes in air dissolved in water. (c) They reproduce by giving birth to their young. / feed their young ones with milk. / have hairs on their bodies. (d) They both move by swimming. / They both have scales on their bodies / They both reproduce by laying eggs. **Q5** 1. (a) Global warming is the gradual increase in the average temperature of the Earth's atmosphere and its oceans. (b) Rise in sea level / Intense heat waves / Flash floods/ droughts/ forest fires/ melting of Arctic sea ice 2. (a) The balloon will burst. (b) If more air continues to be blown into the balloon, the air pressure inside the balloon will become so high that the balloon will burst. **Q6** 1. Plants

depend on animals for seed dispersal. / Plants depend on animals which produce a lot of carbon dioxide. / Plants depend on animals like bees and butterflies for pollination. 2. (a) Mauritius Telecom Shop / Mauritius Post Office (b) They must never be thrown in the environment as they will pollute the soil and rivers as they contain poisonous substances. (c) To tell parents not to waste water at home and to use rainwater for washing outdoor things. / To tell parents to switch off lights and electrical appliances when we are not in the room. / To tell parents not to throw used cells and batteries in the bin, but to bring them to Mauritius Telecom for disposal.

**His Geo : Q1** 1. B 2. A 3. D 4. C 5. D 6. B 7. D 8. C **Q2** (a) A (b) i. Solitaire ii. Dodo (c) They represent the tropical vegetation. / They represent the three dependencies of Mauritius: the Cargados, the Agalega islands and Rodrigues Island. (d) It is a testimony of the pride of the Rodriguan people to live in an autonomous island and their determination to construct the country's destiny in harmony and solidarity for the welfare of everyone within the Republic of Mauritius. **Q3** 1. (a) On Tuesday 27 April 2021 at 4.30 p.m. (b) When 100 millimetres of widespread rains occur in less than 12 hours and that this heavy rain is likely to continue for several hours. (c) At Mon Bois (d) Avoid venturing near flooded rivers and overflowing bridges. / Do not cross submerged areas either by foot or by vehicles. / If in flood prone areas and the water level continues to rise, move to safe place or evacuate the area. / Avoid going near hill or mountain slopes prone to landslide. / Avoid parking on drains and in underground parkings 2. The collision of two different parts of the Earth causes an Earthquake. **Q4** 1. (a) Roads and Reservoirs (b) For agricultural purposes (c) 25 % (d) Wastelands are lands that have been abandoned or neglected by their owners. **Q5** 1. (a) False (b) True (c) False 2. (a) i. carpenters and masons ii. Fishermen (b) Because they had to work from sunrise to sunset. / Because of the punishments inflicted on them. / Because they had a difficult life while working with their masters. **Q6** (a) energy, transport and indentured labourers to work in the sugar cane cultivations. (b) Terra (Belle Vue) / Alteo (F.U.E.L) /

Omnican (Savannah) / Medine (c) They produce refined sugar and special sugars for export and local market. / They produce rum and bioethanol from molasses. / They use bagasse to generate electricity in thermal power plants. **Q7** (a) Chennai (b) At the Immigration Depot / At Aapravasi Ghat (c) 5 years (d) The indentured labourers cleared the land / removed rocks / planted and harvested sugar cane / worked in mills. (e) They helped in the development of the sugar industry, as with their arrival the area under sugar cane cultivation increased.

### SET 5

**Science: Q1** 1. C 2. C 3. B 4. A 5. B **Q2** 1. Causes Pollution: Heavy Oil / Bagasse Does Not cause Pollution: Wind / Waves 2. Dark smoke coming out of factory chimneys / Smoke and Harmful Gases from exhaust pipes of vehicles. / Burning rubber tyres releases toxic gases and smoke in the air. (b) The chimney of the factory should be equipped with filters. / The vehicle engine should be serviced and/or repaired. / Reuse tyres for decorative purposes. (c) Picture D - A green source of energy comes from natural sources; they are non-polluting, do not give off carbon dioxide and are renewable. **Q3** 1. (a) Growth (b) Meat / Chicken / Pulses 2. A set of milk teeth comprises of 20 teeth whereas a set of permanent teeth comprises of 32 teeth. / Milk teeth are smaller than permanent teeth. / The roots of milk teeth are narrower than those of permanent teeth. / Milk teeth are whiter than permanent teeth. 3. Fish – Take in air dissolved in water through their gills. / Reptiles – Have scales on their bodies and move by crawling / creeping / Insects – Have six legs and a hard outer shell. / Birds – Have two wings and their bodies are covered with feathers. **Q4** 1. (a) True (b) True (c) False (d) True 2. (a) Silkworm (b) Silk is a strong and soft material. / Silk can be stretched, and it is absorbent. / Silk cloth is durable. (c) Cotton clothes are less expensive than silk clothes. **Q5** 1. (a) Aquatic ecosystem (b) i. Fish ii. orca / sea lion / penguin (c) Air / water 2. Not to burn leaves, but to make compost for replacing fertilizers. / To replace regular incandescent light bulb with compact fluorescent light (CFL) bulbs/LED bulbs /

To drive less and to do carpooling. / To buy eco-friendly products and to adopt 'Reduce – Reuse – Recycle' approach. / Switch off lights when one is not in a room. / Turn off (using the socket switch) electronic devices when not in use. / Don't waste water/Conserve water. **Q6** 1. (a) Brazil (b) Forest fire / Clearing of land for agriculture / Acid rain due to air pollution / Clearing of forest for development or urbanisation / Development of infrastructure; buildings; settlement (c) Endemic birds will lose their natural habitats and may go extinct. / The quality of air will be affected due to high level of carbon dioxide. / Soil erosion will occur due to heavy rainfall and strong wind. / Animals like deer and monkey will lose their habitat. 3. Forests reduce the level of carbon dioxide and produce oxygen and purify the air.

**His/Geo : Q1** 1. D 2. A 3. C 4. B 5. C 6. B 7. D 8. A **Q2** 1. Tomatoes – In greenhouses / Maize – On terraces / Red beans – Central Ridge 2. (a) electricity (b) agriculture (c) rain gauge (d) Pointe Canon (e) cyclone **Q3** 1. A French Governor / Pamplémousses – A fruit / Pieter Both – A Dutch Governor 2. To provide clean drinking water to the people. 3. As there were no drainage and canals in Port Louis at that time, there was a lot of pollution and mosquitoes. **Q4** (a) South west (b) Longitude – 63°E Latitude – 15°S (c) Because the cyclone was moving towards Mauritius. (d) Because of fallen electric wires / Because of flooded river courses. **Q5** (a) i. Immigration Depot ii. two (b) Bombay / Madras / Calcutta (c) After the abolition of slavery, the British needed labourers to work on the sugar estates. **Q6** (a) Rivière Mourouk, Rivière Malgache, Rivière Banane (b) Alluvial deposits are fertile soils deposited along the river banks and near the mouth of rivers. (c) The Government provides: seeds for asparagus bean, bean, cucumber, lettuce, squash and tomato / regular fruit fly control on crops / veterinary advices and services such as vaccines / scheme to promote bio-farming (organic agriculture). **Q7** (a) The French needed people to: clear the forest and to plant sugar cane and other crops / build the port / build the town of Port Louis / build roads and bridges. (b) i. Maroon slaves ii. Because it was difficult to capture them. (c) Marron slaves

often attacked and robbed farmers to get food. / Sometimes, runaway slaves set fire to farms.

## SET 6

**Science: Q1** 1. D 2. C 3. A 4. D 5. D **Q2** 1. food 2. chlorophyll 3. carbon dioxide ; sunlight 4. photosynthesis 5. oxygen **Q3** 1. Living things reproduce / Living things move / Living things breathe 2. (a) feathers / exoskeleton / hairs (b) i. Penguin ii. They have two legs and two wings. / They lay eggs. **Q4** 1. (a) electrical energy (b) renewable (c) Energy from the sun does not pollute the air./ Using energy from the sun helps to reduce the use of fossil fuels. 2. movement energy to electrical energy. **Q5** (a) i. Carbon dioxide ii. Oxygen (b) i. Air pollution ii. Polluted air contains harmful substances that may cause lung cancer and other respiratory diseases in people. / Plants cannot grow well and may even die because dust blocks the pores in leaves. **Q6** 1. aluminium ; leather ; rubber ; glass 2. (a) cotton (b) carbon (c) burns (d) stainless 3. (a) By painting / By isolating the iron from water. (b) air and water (c) When an object made of iron rusts, it loses its strength and later falls to pieces. **Q7** 1. B – canine C – premolar D – incisor 2. Brush teeth regularly. / Pay regular visits to the dentist. / Eat less sweets./ limit eating snacks. / Use a soft toothbrush. / Replace the toothbrush every 3 months. 3. Crocodiles are carnivorous animals, so they need strong canines to tear meat.

**His/Geo : Q1** 1. D 2. C 3. C 4. A 5. C 6. B 7. B 8. D **Q2** 1. False 2. True 3. True 4. False 5. False 6. True **Q3** (a) i. Guangzhou ii. free workers (b) cobblers, and tailors (c) British period (d) i. The Chinese settled near the sugar estates. ii. food, hats, bicycle repair items and jewellery **Q4** (a) summer (b) High temperature (c) Ensure that your house is in good condition and can withstand cyclone gusts. / Trim tree branches likely to cause damages to your house, telephone and electricity lines. / Clear your property of loose material that can cause injury and damage during extreme winds. / Identify secure

places for your boat. / Be acquainted with the nearest cyclone refugee centres.  
/ Store food and drinking water (d) Boiling water kills germs making it safe to drink. **Q5** 1. (a) an independent country. (b) the first prime minister. (c) Mauritius should remain a British colony. (d) the last British governor. (e) the Mauritian flag. 2. (a) Piton de la Fournaise (b) i. Volcanic soil is very fertile and good for farming. ii. Tourism provides jobs and income. **Q6** 1. (a) Mahebourg (b) About the French settlement in Ile de France. 2. The protection and preservation of our heritage is important because it tells us about the events that happened long ago. 3. A multicultural heritage means many cultures in one place. **Q7** 1. (a) In 1835 (b) Pointe Canon (c) The slaves wanted to live freely and independently, and also to escape the harsh treatment they had suffered with their masters. (d) Rodrigues / Agalega 2. They helped in building the town and harbour of Port Louis. / They cleared the forests, tilled the soil and cultivated sugar cane and food crops. / They also reared animals and worked in sugar mills. / They carried the products by ox cart or boats to the market in Port Louis.