ANSWERS

COPERNICUS AND SPACE

Q1.

- Enhance our understanding of the planet
- Teach us about weather patterns
- Allow us to gauge extent of dangerous abnormalities e.g. oil spills
- Enable us to manage global threats like climate change, food shortages, population growth
- Bring people together from across the geospatial and scientific spectrum
- Deliver operational services
- Support other services such as climate change monitoring, sustainable development, transport and mobility, regional and local planning, maritime surveillance, agriculture and health,
- All of these services are free, which contributes to the development of new innovative applications and services
- Provides Europe with an autonomous capacity for Earth Observation
- Etc.

Q2.

All of the above.

Q3.

"Since Nicolaus Copernicus formulated his heliocentric model of the universe, the frontiers of human knowledge have extended far beyond the boundaries of the solar system which it describes. Yet some of the biggest questions facing humanity still relate to our own planet, and our relationship with it."

The moon, Earth and/or sun are invoked in the font choice

Dark blue font colour representing the night sky

ANSWERS

WEATHER VS CLIMATE

Q1.

GLOBAL WARMING is caused by the increase in the Earth's temperature (CLIMATE CHANGE) which comes from adding more greenhouse gases to the atmosphere than those occurring naturally.

GLOBAL WARMING describes the current rise in the Earth's temperature. It is just one feature of CLIMATE CHANGE.

CLIMATE CHANGE refers to the many different effects of GLOBAL WARMING on the Earth's climate system.

Q2.

Desert = HOT, DRY

Polar region = COLD, DRY

Rainforest = HOT, HUMID

Q3.

Melting glaciers, more intense and frequent weather events e.g. hurricanes, rainfall, heat waves and drought, ecosystem changes, changes in water levels...

CARBON FOOTPRINT

Q1.

TURN OFF THE LIGHTS WHEN YOU LEAVE A ROOM

ONLY BOIL AS MUCH WATER AS YOU NEED

FILL UP THE WASHING MACHINE AND DISHWASHER

DONATE YOUR OLD CLOTHES

~~THROW EVERYTHING IN THE SAME BIN~~

~~BUY MORE FOOD THAN YOU NEED~~

~~TAKE THE CAR AS MUCH AS POSSIBLE~~

BRING REUSABLE SHOPPING BAGS TO THE MARKET

~~TAKE A BATH INSTEAD OF A SHOWER~~

~~EAT LOTS OF RED MEAT~~

CLOSE YOUR WINDOWS WHEN THE HEATING IS ON

TURN OFF THE TAP WHEN BRUSHING YOUR TEETH

Q2 B.

3

1

4

2

ANSWERS

GREENHOUSE EFFECT

Q1.

GREENHOUSE GAS	NON-GREENHOUSE GAS
METHANE (CH_4)	OXYGEN (O_2)
WATER VAPOUR (H_2O)	NITROGEN (N_2)
NITROUS OXIDE (N_2O)	CARBON MONOXIDE (CO)
OZONE (O_3)	HYDROGEN CHLORIDE (HCl)
CARBON DIOXIDE (CO_2)	ARGON (Ar)
CHLOROFLUOROCARBONS (CFCs)	
HYDROFLUOROCARBONS (HCFCs and HFCs)	

Q2.

The Montréal Protocol

Q3.

Carbon is everywhere and in all living things. **TRUE**

Carbon is completely static, remaining in one place for millennia. **FALSE**

Carbon exists in the air only as a gas (carbon dioxide, or CO_2). **FALSE**

Oceans cannot absorb CO_2 as they are liquid and CO_2 is a gas. **FALSE**

Human beings exhale carbon when we breathe. **TRUE**

Dead plants and animals turn into carbon when they decompose, and are absorbed back into the Earth. **TRUE**

This process is referred to as the 'carbon circle'. **FALSE**

Human activities are upsetting the delicate balance of carbon levels in the air, land and sea. **TRUE**

Deforestation of tropical rainforests causes a build-up of carbon stores. **FALSE**

Increasing levels of carbon dioxide (CO_2) in the atmosphere cause increases in the Earth's temperature. **TRUE**