(The greenhouse effect and greenhouse gases)

Q1. (2019)

(methane) allows short(er) wavelength radiation to pass through (from the sun)

(which is) re-emitted from the surface as long(er) wavelength radiation

(which is) absorbed (by methane in the atmosphere)

Q2. (2021)

- carbon dioxide produced
- (which is) a greenhouse gas
- (therefore) surface temperature increases
- (therefore) global warming
- (so) climate change
- (so) polar ice caps melt
- (so) increasing sea levels
- (so) flooding
- (so) extreme weather events
- (so) reduction in biodiversity
- (so) famine / drought

- sulfur dioxide produced
- (which causes) acid rain
- (so) damage to buildings / statues
- (so) damage to trees
- (so) damage to aquatic animals
- (so) respiratory problems in humans

- carbon / soot produced
- (which are) particulates
- (which cause) global dimming
- (so) respiratory problems in humans

- carbon monoxide produced
- (which is) toxic

Q3. (2023)

water vapour