

MINISTRY OF EDUCATION, HERITAGE AND ARTS

YEAR 12 BIOLOGY

REVISION WORKSHEET 10

Write the answers to the following questions in your exercise/activity books.

Disease, Climate and Environmental Issues

1. The COVID 19 pandemic has resulted in a global reduction in air travel. BBC Crowd Science news reported that according to the Global Carbon Project, ‘a mass grounding of flights during the peak of the 2020 coronavirus pandemic saw CO₂ emissions from aviation reduced by up to 60% [<https://www.bbc.com/news/av/>].
 - a. Explain how this reduction in CO₂ emission is a positive effect (impact) for the environment. **(3 marks)**
 - b. Describe how this positive impact can be maintained when borders open and normal air travel resumes. **(3 marks)**

2.

The Earth’s lower atmosphere is becoming warmer and moister as a result of human caused greenhouse gas (GHG) emissions. This gives the potential for more energy for frequent and more intense storms and certain extreme weather events.

Source: <https://royalsociety.org/topics-policy/projects/climate-change-evidence-causes/questins-13/>

In December 2020 and January 2021, respectively, Cyclones Yasa and Ana wreaked havoc in the northern provinces of Macuata and Cakaudrove – two extreme weather events in two consecutive months.

- a. Name **three** human activities that result in greater GHG emissions. **(3 marks)**
- b. Select **one** of the activities you have named in (i) above and explain how the GHG emitted results in a warmer and more moist atmosphere. **(2 marks)**
- c. Describe **three** ways that communities in the above named provinces were damaged by the impact of the two cyclones. **(6 marks)**
- d. Explain **three** actions that may be taken before extreme weather events like cyclones to reduce its impact on peoples’ lives and properties. **(6 marks)**
- e. Describe **two** ways of reducing greenhouse gas emissions. **(4 marks)**

The End