

Exam Sustainable Development 17 June 2016

1) *"The last 1000 years population has increased by twentyfold and income per capita by tenfold."*

- a) What is the IPAT-equation?
- b) What is the link with the paragraph above?
- c) Give 3 reservations why we should not be that cheerful about an increase in income per capita.

2) Person X performs research at University Y and has introduced a new indicator for sustainable development (fictional case).

$$LEVO = \text{average level of happiness in a country} + \frac{\text{Genuine savings}}{GDP}$$

[A table with a few numbers of average happiness and genuine savings/GDP and the outcome for the indicator]

- a) Which kind of indicator is this according to the Fleurbaey & Blanchet classification?
- b) Give 3 reasons to have doubts about this indicator (3 possible disadvantages).

3) BP is a Belgian gas fractioning company (or something similar). These activities have an impact on health and environment (+ some examples).

- a) What is the precautionary principle? How to apply to BP?
- b) What is leapfrogging? How could BP apply this?

4) A 2-page text about economic growth and the economic growth model of Solow. This model does not include environmental factors + author provides some arguments. You have to write a text (1 page) in a reaction to this argumentation (using concepts as seen during lectures).