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Kursnamn: Miljövetenskap AV, Integrerad miljöbedömning

Provnamn: Tentamen

Ort: Östersund

Ämne
Final exam

Course name:
Integrated Environmental Assessment (MX022A), 7.5 ECTS

Duration:
4 hours

Support:
Language dictionaries allowed

Examiner:
Anders Jonsson

Course coordinator:
Itai Danielski

Important!!!
Your personal code must be written on each sheet of paper.
Don’t forget to register the question number in the answer paper sheets
Submit this question sheet together with your answer paper sheet
Use clear handwriting, otherwise your answers may not be considered.

The maximum score for this examination is 100p and the minimum score to pass is 50p.

Good Luck!
Question sheet

Part 1. Concepts and definitions

5p for each (max 35p)

Explain at least 7 of the following concepts:

1. Aquaculture
2. Boreal Forest
3. Lichen
4. Permafrost
5. Wetland
6. Threshold
7. Permafrost
8. Issue attention cycles
9. Human development index
Part 2. Multiple answer questions

Circle the right answers,

**Note: more than one correct answer is possible**

11) What is true about indicators?

   a. Provide feedback on system behaviour and policy performance
   b. They aggregating different multiple data
   c. Are facts, numerical observations and statistics
   d. Can ensure movement toward common goals

12) What are the characteristics of Spatial Data?

   a. Collected for one point and results in a single number
   b. Is used to identify the location and shape of, and relationships among, geographic features and boundaries
   c. Is often displayed as layers of data
   d. Cannot be further broken down

17) The tragedy of the commons suggests that:

   a. Certain resources are given too high a value
   b. Resources under common ownership are prone to overuse
   c. Resources that are owned tend to be managed carefully
   d. Resources become overexploited when people own them

18) Match the following terms with the relevant figures:

   a. Stock adjustment
   b. Logarithmic growth
   c. Exponential growth
   d. Draining

   ![Graphs](image)
Part 3. Open questions

18) What are the factors that affect happiness and in which order of importance?

20) What is the difference between ‘Qualitative data’ and ‘Quantitative data’? Provide examples for both.

Part 4. Analysis

21) Describe the different parts of the DPSIR framework, and arrange the following statements in the right place:

- strain on the waste treatment system
- Large industrial activity in the region
- Contaminated soil can effect small-scale farming in the area
- It is subjected to desertification effect
- Mining and quarrying was also identified as a significant factor
- Noise pollution reaches over 55 dB
- The toxic compounds found to have a harmful effect on humans health
- The city has the biggest economical influence in this region
- Many businesses have already closed down because of limited access for the public
- Reduce diffuse pollution at source
- The energy demand is still increasing
- New trees have been planted to reduce noise pollution

22) You would like to initiate a bicycle-sharing system in your city, i.e. public bicycles that could be rented or loaned for short periods. Write a plan for impact strategy to achieve your goal, which includes all the different stages.

23) Describe the Stella model below in terms of:

What is being measured?
What are the flows?
Where are feedback loops? And which type?
What is missing in the model?