



## Försättsblad Prov Original

Kurskod	Provkod	Tentamensdatum
M X 0 2 2 A	T 2 0 0	2 0 1 9 - 0 1 - 2 4
Kursnamn	Miljövetenskap AV, Integrerad miljöbedömning	
Provnamn	Tentamen	
Ort	Östersund	
Termin		
Ämne		

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**Mittuniversitetet**  
MID SWEDEN UNIVERSITY

## **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!**

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## **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

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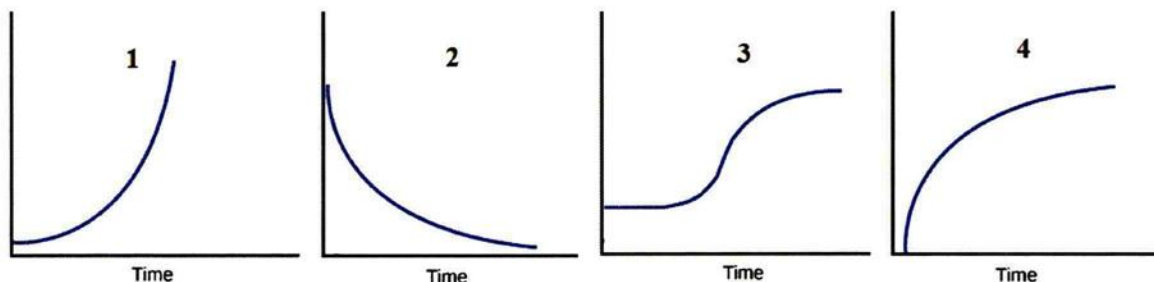
**Part 2. Multiple answer questions**

4p for each (total 16p)

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



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**Part 3. Open questions**

5p for each (total 10p)

- 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**

13p for each (total 39p)

- 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?

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