

## EXAM

TU-91.2005 Strategic Management of Technology and Innovation

December 18<sup>th</sup> 2006, 13-16

Please, write your name, student number, course code and name, this date and your signature on each paper. Use clear handwriting. You can answer to questions in English, Finnish or Swedish. In order to pass the examination, you have to get at least 20 points (out of 40).

This exam consists of seven questions. Answer to 4 questions. Each question gives maximum 10 points.

Be creative – but in the limit of the course!

1. Explain briefly the following concepts

- a. Technology S-curve
- b. Spillover
- c. Business angel
- d. Agglomeration economies

2. Identify and describe different types of innovation. Why does it make sense to distinguish between different types of innovation?

3. What are the most important intellectual property rights? When should companies protect their intellectual properties and when not?

4. Why has the ICT cluster been successful in Finland? (lecture)

5. Describe and compare the open and closed innovation paradigms. What are the benefits and drawbacks associated with these paradigms? (lecture)

6. Why should companies innovate?

7. What is the relationship between long wave cycles and technological change?