UNIVERSITY OF SWAZILAND FACULTY OF SOCIAL SCIENCE DEPARTMENT OF ECONOMICS SUPPLEMENTARY EXAMINATION, JULY 2015

TITLE OF PAPER:

ECONOMIC AND SOCIAL

ANALYSIS OF PROJECTS

COURSE CODE :

ECON 309

TIME ALLOWED:

THREE (3) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR

QUESTIONS.

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Question 1

- a) Externalities result in market failure. Explain. (5 markets)
- b) Various ways are used to correct for externalities that arise as projects are implemented. Discuss any four. In your opinion which is most effective. Explain. (10 marks)
- Use a diagram to show how taxes can be used to correct for negative externalities. Be sure to outline the effect on price, quantity, consumer and producer surplus.

Question 2

- a) Discuss the significance and objectives of social cost benefit analysis. (10 marks)
- b) Discuss the various stages of the UNIDO approach used in social cost benefit analysis. Highlight significance of the various stages. (15 marks)

Question 3

- a) Construct a hypothetical pay-off matrix assuming three states of nature (A, B, C) and three strategies (1, 2, 3).
- b) Calculate the maximax, minimax, Hurwicz and Laplace' criteria. Begin with definitions for each criterion. Indicate optimal strategies under each criterion. Set $\alpha = 0.8$. (20 marks)

Question 4

Discuss, in detail, the various stages of the L-M approach in social cost benefit analysis. What are the similarities and differences between the L-M and UNIDO approaches. (25 marks)

Question 5

- a) Discuss the concepts of shadow wage rate and shadow rate of interest. (5 marks)
- b) Define pecuniary and technological externalities. Which one leads to resource misallocation? (5 marks)
- c) Explain how social cost benefit analysis differs from cost benefit analysis. (5 marks)
- d) Discuss the Coarse Theorem and its limitations. (10 marks)