UNIVERSITY OF ESWATINI FACULTY OF SOCIAL SCIENCE DEPARTMENT OF ECONOMICS

MAIN EXAMINATION PAPER: DECEMBER, 2018

TITLE OF PAPER:ECONOMICS OF AGRICULTURECOURSE CODE:ECON 407/ECON 410TIME ALLOWED:THREE (2) HOURS

INSTRUCTIONS:

- 1. Answer Question ONE and any other TWO questions.
- 2. Show all relevant workings to your answer
- 3. All Questions carry a total of 25 marks

SPECIAL REQUIREMENTS: SCIENTIFIC CALCULATOR

Question1 (Compulsory)

- a) Explain the subject matter of agricultural economics
- [5 marks] b) Explain the main features of the Lewis,s model of Economic Development [10 marks]
- c) Explain the justification that labour could be withdrawn continuously from the agricultural sector without a decline in agricultural production as implied in the Lewis model

- d) What are the main criticisms of the Lewis model with respect to economic development? [5 marks]
- e) Given the following Cobb- Douglas production function for NAMBOARD for the TWO inputs labour (X_1) , and fertilizer (X_2) .

$$Y = X_1^{1/2} X_2^{1/4}$$

- (i) Formulate NAMBOARD's profit maximization problem algebraically. [3 marks]
- (ii) At what point will the company maximize profits? Explain. [5 marks]
- (iii) Derive the equation for the expansion path for the two variable production function above.
- [5 marks] (iv) Suppose that both input prices are E1 and P_y = E5. How much of each input should be used to maximize profits? [12 marks]

Answer any two (2) questions from the following

Question2

- a) What is the importance of the elasticity of substitution in agricultural production economics? [5 marks]
- b) What information is required for the determination of optimum output combinations in a production function? [5 marks]
- c) What would you consider to be the main factors hindering the growth of the agricultural sector in the Kingdom of Eswatini? [15 marks]

Question 3

- a) Distinguish between the following efficiency concepts.
 - Technical efficiency (i)
 - (ii) Allocative efficiency
 - (iii) Economic efficiency

b) The Sub-Saharan region has shown sluggish growth in agricultural exports. What factors would your consider responsible for the poor agricultural export development in the [16 marks]

•

Question 4

- a) What is the difference between risk and uncertainty in agriculture?
- b) Discuss the different types of attitudes towards risk that may be exhibited by a typical [9 marks]
- c) Suggest any three types of risks and ways that farmers could apply to deal with these [12 marks]

3