

University Examinations for 2020/2021 Academic Year SCHOOL OF BUSINESS AND ECONOMICS DEPARTMENT OF ECONOMICS

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF ECONOMICS

EET 300: MICROECONOMIC THEORY III

DATE: 26/3/2021 TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer Question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Using hypothetical examples, Differentiate between cournot, market leadership and Bertrand market (15 marks)
- b) Given the following information p = a bQ. Calculate Total Revenue for a monopoly and perfect competition (5 marks)
- c) Demonstrate that the marginal utility is equal to marginal rate of substitution (10 marks)

QUESTION TWO (20 MARKS)

Explain types of production function

(8 marks)

a) Demonstrate the differences between the Marshallian demand curve, Hicksian demand curve and slusky demand curve (12 marks)

QUESTION THREE (20 MARKS)

- a) Use the following example $C(w_1, w_2, y) = 10w_1^{\frac{1}{3}}w_2^{\frac{2}{3}}y$ to demonstrate Duality between production function and cost function (15 marks)
- b) Differentiate between total effect and substitution effect in the slusky demand equation (5 marks)

QUESTION FOUR (20 MARKS)

- a) Briefly explain what an indirect utility function is and highlight some of its properties (10 marks)
- b) With aid of examples demonstrate the properties of the profit function (10 marks)

QUESTION FIVE (20 MARKS)

- a) Distinguish between the perfect competitive markets and the monopoly markets. (10 marks)
- b) Describe some of the properties of cost profit functions (10 marks)