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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2019_1 EXAMINATION

COURSE TITLE: MANAGERIAL ECONOMICS

COURSE CODE: ECO 824

UNITS: 3

TIME ALLOWED: 3 HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS. ALL QUESTION CARRY

EQUAL MARKS

QUESTION 1A

State the conditions for profit maximization 6 Marks

QUESTION 1B

Given that P = 300 - 3Q and $TC = 80 + 2Q^2$, find

I. Profit maximizing level
II. Maximum profit
III. Unit price
2 Marks
2 Marks
2 Marks

QUESTION 1C Prove that $MR = P(1 - \frac{1}{ep})$ 5.5 Marks

QUESTION 2

Using the Lagrangian Multiplier method, optimize the profit function $z = 4X^2 - 2XY + 6Y^2$, subject to the constraint X + Y = 72 17.5 Marks

QUESTION 3A

What are the properties of the Cobb – Douglas Production Function? **8.5 Marks**

QUESTION 3B

Given the Cobb Douglas Production Function as $Q = AK^aL^b$ calculate the following

a) Marginal Products of Labour (MP_L)
b) Marginal Products of Capital (MP_K)
3 Marks
3 Marks

c) Marginal Rate of Technical Substitution of Labour for Capital (MRTS_{L.K}) 3 Marks

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QUESTION 4

- i. A firm faces the Cobb Douglas production function of $Q = 12K^{0.4}L^{0.4}$, and can buy inputs [Capital (K) and Labour (L)] at interest and wage of N40 and N5 per hour respectively. If the firm has a budget of N800, what combination of K and L should he use in order to produce maximum output. **14 marks**
- ii. At this equilibrium level of employment, what is the level of output and the production scale?

 3.5 marks

QUESTION 5A

What is Demand forecasting 5 Marks

QUESTION 5B

Explain the following group of consumer's goods and services in relation to income-demand analysis

I.	Essential Consumer Goods	2.5 marks
II.	Inferior Goods	2.5 marks
III.	Normal Goods	2.5 marks
IV.	Luxury and Prestige Goods	2.5 marks
V.	Giffen Goods	2.5 marks