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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2023_1 POP EXAMINATION..

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COURSE TITLE: MANAGERIAL ECONOMICS COURSE CODE: ECO 332 UNITS: 2 TIME ALLOWED: 2 HOURS INSTRUCTION: ANSWER THREE (3) QUESTIONS. QUESTION ONE IS COMPULSORY.

1(a) Given the demand function: Qd = 24 - P, find the marginal revenue when P = 24, 20, 12, and 8. (15 Marks)

1(b) Explain the five (5) factors that determine the price elasticity of demand (**10 marks**)

1(c) In the business world, firms are faced with diverse constraints to profit maximization. As such, there are different techniques used to optimise the business objective(s) under these constraints. List these techniques.(3 marks)

1(d) What is the difference between Direct Demand and Derived Demand?(2marks)

2(a) Suppose the demand function for a product is given as: Qd = 3000 - 20P, calculate the:

(i) quantity demanded at the unit price of N20, (ii) price to sell 100 units, (iii) demand when price is zero(0), and (iv) price when quantity demanded is zero. (**4marks each**)

2(b) If price the of a commodity increased from N50 to N120, and the quantity demanded decreased from 40 to 20, calculate the price elasticity of demand.(**4marks**).

3(a) Explain what you understand by the Opinion Poll Methods and explain the various types you know. (**10marks**)

3(b) Briefly explain the following concepts (i)Point Elasticity (ii) Cross-Elasticity of Demand (iii) Endogenous variables (iv) Exogenous variables (v) Incremental Costs. (**2marks each**)

4(a) Given a linear cost and revenue function as follows:

Cost function:	C = 200 + 20Q(1)
Revenue function	R = 30Q(2)

Compute the break-even level of output algebraically. (10marks)

4(b) With the aid of a diagrams, describe the pricing and output decisions under monopoly both in the long-run. (**10marks**)