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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2022\_2 EXAMINATION

## COURSE TITLE: APPLIED ECONOMETRICS COURSE CODE: ECO 713 UNITS: 3 TIME ALLOWED: 3 HOURS INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

1. List and explain the objectives of econometric.

(17.5 Marks)

- 2. Following the demand and supply theories, specify a model that depict the postulated idea of the existing relationship. (17.5 Marks)
- 3. List and explain the two conditions that must be satisfied for an equation in a system of equations to be identified. (17.5 Marks)
- 4. Equation  $Y_i = b_1 + b_2 D_{2i} + b_3 D_{3i} + b_4 D_{4i} + u_i$  represents a multiple regression with dummy explanatory variables. Assuming  $u_i$  satisfies the OLS assumptions, and adopting ANOVA techniques, the regression results below is obtained; (17.5 Marks)

- (i) Establish the relationship between public school teachers' salaries (Y) in North  $(D_{2i})$ , South-South  $(D_{3i})$ , South East  $(D_{4i})$  and West  $(b_1)$  comprising selected LGA and states in Nigeria.
- (ii) Using the obtained results advice the Nigerian government on the regions that should be given more attention.
- (iii)Explain why three dummies were used to represent the four regions under study instead of four.
- 5. List and explain the steps of performing unit-root tests in Eviews. (17.5 Marks)

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