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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES... DEPARTMENT OF ECONOMICS 2021_1 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)

$$Y_i = 26,158.62 - 1734.473D_{2i} - 3264.615D_{3i} - 1213.112D_{4i} + u_i$$

 $S.E~(1128.523)~(1435.953)~(1499.615)~(1041.110)$
 $t = [23.1759]~[-1.2078]~[-2.1776]~(-1.16521)$
 $Prob = (0.0000)~(0.2330)~(0.0349)~(0.24321)$

- (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)