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## NATIONAL OPEN UNIVERSITY OF NIGERIA DEPARTMENT OF ECONOMICS FACULTY OF SOCIAL SCIENCES 2021 1 EXAMINATION...

**COURSE TITLE: RESEARCH METHODOLOGY** 

**COURSE CODE: ECO 311** 

**UNITS: 3** 

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS. All QUESTIONS

HAVE EQUAL MARKS

- 1). Enumerate and explain the various limitations of applying scientific method in social science research (17.5 Marks)
- 2a). List four (4) avenues of identifying a research problem (4 Marks)
- 2b). Explain briefly three (3) guiding principles for evaluating, and selecting a researchable problem (13.5 Marks)
- 3a). Explain briefly the two basic data sources (8.5 Marks)
- 3b). Explain three (3) differences between a theoretical framework and a conceptual framework. (9 Marks)
- 4). List and explain 5 different techniques of data collection in researcher (17.5 Marks)
- 5a). Distinguish between the use of student t-test and Chi-square in hypothesis testing (5 Marks)
- 5b). The producer of electric kettle declares that the life spans of produced kettles have a variance of 9.0 hours. Suppose a random sample of 12 kettles is selected from the produced kettles with a sample variance of 8.5 hours. Test the hypotheses at 5% significance level that  $\sigma^2 = 9.0$ hrs against  $\sigma^2 \neq 9.0$ hrs. Interpret your result.

(12.5 Marks)