NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2015 EXAMINATION

SCHOOL OF AGRICULTURAL SCIENCES

COURSE CODE: AEM 772
COURSE TITLE: STATISTICS AND RESEARCH METHODS IN EXTENSION
                          (3 unit)
TIME: 2:30 Minutes

INSTRUCTIONS: ANSWER 5 QUESTIONS

1a. List and explain the types of educational research that you know (15 mks)
b. List 5 non-experimental research (5 mks)

2a. State the three criteria for good problem statement and 2 conditions that are conducive to the formulation of significant problem statement (5 mks)
b. Briefly explain 5 factors the determine the Selection of a Problem (15mks)

3a. What is hypothesis (5 mks)
b. State 5 functions of hypothesis (5 mks)
c. Distinguish between the types of hypothesis (10 mks)

4a. Using the data below calculate and draw a pie chart (10 mks)

Distribution of Students in a Faculty of Agriculture

Department	Number of student
Extension and Rural Development	25
Agricultural Economics	30
Agricultural Biology	15
Agronomy	20
Animal Science	30

b. Explain briefly Ex-post Facto Research while stating steps in ex-post facto design (10 mks)

5a. Explain briefly 2 types of probability sampling methods (10 mks)
b. List the points to note during sampling (5 mks)
c. State 5 rules of tabulation (5 mks)

6. Briefly explain the broad sequence of contents of a comprehensive research report
7. Explain the following
a. Evaluation   b. Type I Error
c. Variables   d. Probability