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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES 2020 2 EXAMINATION ...

COURSE CODE: ANP 513

COURSE TITLE: ANIMAL PRODUCTION RESEARCH TECHNIQUE

CREDIT UNIT: 2 CU

TOTAL SCORE: 70 MARKS **TIME ALLOWED:** 2 Hours

INSTRUCTIONS: ANSWER QUESTION 1 (25 MARKS) AND ANY OTHER THREE

(15 MARKS EACH)

Q1 a What do you understand by the term Research 1½ marks

b In broader perspective, expatiate the scientific methods of research.17 marks

c Describe the forms of a well-planned experiment. 6½ marks

Q2 a Explain in detail what do you understand by Completely Randomized Design (CRD)" 2 marks

b Enumerate the merit and demerit of CRD. 9 marks

c What do you understand by "CRD with some missing data". 4 marks

Q3 a Explain randomization in latin square design. 1 mark

b Give the advantages and disadvantages of latin square design. 7 marks

State the methods for comparing all possible pairs of means when significant difference exists.
7 marks

Q4 a What do you understand by Artificial Insemination (AI). 2 marks

b Enumerate the merits and demerits of AI. 7 marks

c Give six (6) signs of Heat. **6 marks**

Q5 Briefly explain the following:

i Radioscopy 5 marks

ii Calorimetry 5 marks

iii Spectrometry 5 marks

6 If an animal scientist sets out to investigate the effect of four plant protein sources on the weight again of broiler chicken reared in a housing system located on a slope for eight weeks and obtained the data below. Test whether the treatment (plant produce sources) and sloping of the house significantly affected the weight of the birds.

A ₄₀ C ₅₁	D ₆₂	B ₅₂	C ₄₈
D ₆₀	C ₆₁	A ₅₆ B ₅₅	D ₅₈
B ₅₀	A49	D ₆₀	A ₄₉ C ₅₃

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- i Provide the analysis of variance (ANOVA) Table
- ii Write in two sentences the inference(s). (15marks)