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NATIONAL OPEN UNIVERSITY OF NIGERIA KM4, Kaduna-Zaria Expressway, Rigachikun, Kaduna Faculty of Agricultural Sciences (FAS)

Semester POP Exam Question 2021_7836

COURSE TITLE: ANIMAL PRODUCTION RESEARCH TECHNIQUES

COURSE CODE: ANP 513

CREDIT UNIT: 2
TOTAL SCORE: 70

TIME ALLOWED: 2 HOURS

INSRUCTIONS: Answer Compulsory question ONE (30 marks) and any other two questions (20 marks

each)

- 1. (a) Briefly explain five basic elements usually considered in scientific methods of research (13 marks)
 - (b) Discuss analysis of variance and the common assumptions made when performing this analysis (7 marks)
 - (c) Concisely describe the process of artificial insemination in cattle (10 marks)
- 2. (a) Carefully describe six procedures of experimentation and provide examples where necessary (15 marks)
 - (b) Give five advantages of Completely Randomized Design (5 marks)
- 3. (a) To reduce experimental error, discuss the three basic principles to apply in the experimental design (15 marks)
 - (b) Itemize three advantages and two disadvantages of Artificial Insemination (5 marks)
- 4. (a) Briefly explain digestibility in animal science (4 marks)
 - (b) Discuss in-vivo digestibility trials (6 marks)
 - (c) List five methods for comparing all possible pairs of means when significant difference exists (5 marks)
 - (c) In the Completely Randomized Design analysis table provided below, an observation is missing in treatment B and replicate 3. Calculate the dummy value for it. (5 marks)

	Treatments			
Replicates	Α	В	С	D
1	6	7	4	10
2	10	8	5	11
3	21	-	6	12
4	42	21	7	13
5	10	10	8	14