



91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI, ABUJA Faculty of Agricultural Sciences

Department of Animal Science and Fisheries

2020_2 Examination ...

Course: ANP507: Animal Breeding And Livestock Improvement

Credit Unit: 2

Time Allowed: 2 hours.

INSTRUCTIONS: Answer question one (Compulsory: 25 Marks) and any other

THREE (15 marks each)

QUESTION ONE

i. Explain in your own words the meaning of performance testing in selection of Animal 3 marks

ii. Can you provide a list of heritable traits of Cattle Beef/milk productions, Horses, Swine Sheep and Poultry that can be easily and accurately measured?

22 mark

QUESTION TWO

- i. Can you write a brief outline of performance testing that should be included in a progressive beef cattle breeder's program?

 6 marks
- ii. State the primary goal of seed stock producers? 5 marks
- iii. Can you distinguish between seed stock producers and commercial performance testing programs?

 4 marks

QUESTION THREE

- i. Can you write a brief outline on the use of information on relatives in the selection of animal breeds?
- ii. What differences exist between the two different types of information on use of relatives in the selection of animal breeds?

 10 marks

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QUESTION FOUR

Can you write a brief outline on the following types of selections?

a) Natural selection 6 marks

b) Artificial selection 9 marks

QUESTION FIVE

i. Why is a selection generally more effective for highly heritable traits than for lowly heritable ones?

ii. Can you distinguish between recurrent selection, reciprocal recurrent selection and pedigree selection?9 marks

QUESTION SIX

- i. Explain in your own words what is meant by production traits of an animal 3 marks
- ii. Describe a typical breeding design for a Progeny Testing Programme that can be implemented in smallholder production situations.
- iii. Briefly explain Positional cloning 7 marks