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NATIONAL OPEN UNIVESITY OF NIGERIA

Faculty of Agricultural Sciences

Department of Animal Science and Fisheries7826

POP Examination Questions 2021_2

Course:ANP504: Biotechnology In Animal ProductionCredit Unit:2Time Allowed:2 hours.

INSTRUCTIONS: Answer question one (Compulsory: 25 Marks) and any other THREE (15 marks each)

QUESTION ONE

i. ii.	What is single point analysis? Can you explain in your own word the constraints of single factor a	is single point analysis? ou explain in your own word the constraints of single factor analysis		
iii.	What are the underlying linear phases DNA scientist uses to clone fragment of DNA? 10 marks			
iv.	Can you write a brief outline on the concept of molecular cloning of	of DNA	10 marks	
QUESTION TWO				
Write short notes on the following in environmental biotechnology				
i.	Biotransformation	5marks		
ii.	Indirect selection of desired plant phenotype	10 marks		
QUESTION THREE i. What differences exist between the relevant of Two Marker Approach (TMA) and Single Marker				
	Approach (SMA)?	7 marks		
ii.	Can you defend the notion that in vitro embryo production has greater merits than natural embryo			
	production?	8 marks		
QUESTION FOUR				
i.	Outline the merits of composite interval mapping	4 marks		
ii.	Can you distinguish between multiple intervals mapping and Inclu	isive composit 11 marks	e interval mapping	

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QUESTION FIVE

Can you write a short note in your own words the following concepts?

- i. Major applications of Environmental Biotechnology 4marks
- ii. Sex Sorted Semen 5 marks
- iii. Nuclear transfer or embryo cloning 6 marks

QUESTION SIX

i.	State in your own words the concept of DNA fingerprint	3marks
ii.	Outline important steps in DNA fingerprint	12marks