

DEPARTMENT OF PLANT SCIENCE AND APPLIED ZOOLOGY
Faculty of Science
Olabisi Onabanjo University, Ago-iwoye
HARMATTAN MID-SEMESTER EXAMINATION 2005/2006 SESSION

COURSE CODE: BIO 201 (GENETICS 1)

TIME ALLOWED: 30 mins

INSTRUCTION: Answer All Questions, Record your answers in the table below. Do not write beyond the space provided.

Matric No:

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Name:

Dept:

(Surname first)

Level:

Unit within Dept: _____

The sex chromosomes are usually pairs of 1, 2, and 3 of these 4 chromosome carries much more genes than the 5 chromosome. Mutation can result from physical and/or biochemical accidents during 6. Adeyemi(1975) established that the shapes of eggplant fruits were controlled by 7. The pattern of inheritance whereby the major genes located linearly along the length of the chromosomes are suspended in the nucleoplasm of the nucleus is called 8. Cytogenes are located in the 9 while 10 are found in the nucleus. Non-hereditary characters popularly used in plant genetical studies are 15, 16, 17, 18, 19 and 20. The five external phenotypic characters used in animal genetical studies are 21, 22, 23, 24 and 25. The phenotypic ratio for the co-dominant genes is 26. When a trait is controlled by the mendelian genes it is called 27. The inheritance that is of great importance in agriculture is 28. The four chromatids of 29 inversion are all viable since each of them has a single 30.

**ANSWERS TO BIO 201 HARMATTAN MID-SEMESTER EXAMINATION
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Question No	Answer(Write in this column only)	For Official Use(Do not write in this column)
1	XX	
2	XY	
3	XO	
4	X	
5	Y	
6	DNA Replication	
7	Cytogenes	
8	Chromosomal/Nuclear inheritance	
9	Cytoplasm	
10	Genes	
11	Acquired	
12	Relationship of organism	
13	Determination of their parenthood	
14	Their possible evolution	
15	Stamen	
16	Numbers of petals	
17	Sepals	
18	Floral Colour	
19	Orientation of floral whorl	
20	Fruit type	
21	Skull type	
22	Nose type	
23	Dentation	
24	Absence/presence of earpinnae	
25	Skin type	
26	1:2:1	
27	Discreet/Discontious	
28	Polygenic inheritance	
29	Pericentric	
30	Centromere	