OLABISI ONABANJO UNIVERSITY, AGO-IWOYE DEPARTMENT OF PLANT SCIENCE AND APPLIED ZOOLOGY HARMATTAN SEMESTER EXAMINATION (2007/2008 SESSION)

COURSE TITLE:

GEMETICS I

* COURSE CODE:

BIO 201

INSTRUCTION:

Answer all the questions on the other side of the question

paper as provide.

TIME ALLOWED:

30 min.

phenotypic ratio of 8 while the genotypic ratio is J. The gene that only manifests itself in its homozygotic condition is 10 while It manifests itself in both 12 and 13 conditions. Genes in its heterozygotic or 14 condition do not 15 or 16 each other but 17 of each other in the next generation/meiosis. Characters transmitted from generation to generation is known as her character and it is controlled by gett while other character is called 20 because it is through 21 the possibility that a pregraint woman will give birth to a male child is 22 1/2 The man determines the sex of his child because he is 23 having 24 while the woman is 25 by having 25 Agricultural productivity is controlled by 13 which are 28 and 29 genes. The non-genetic factors are 30 31 and 32. A cell having 33 for chromosomes is called 34 cell while gamete cells are spas cells. The structural exchange between two non-homologous chromosomes is termed 36 which result in 37 sterility. When there are two simultaneous breaks in a single chromosome and the middle section turns through _38 before healing up is known as 39 . This occurrence is called 30 when one arm is involved and 41 when 12 and 43 are involved. The resulting chromosomes from crossing-over in the one arm of the chromosome involved me 44 . 45 , 46 and 47 which will form 48 in the next cell division. When a chromosomal configuration is star-shaped it means that 49 had occurred in the pass while unequal chromosome lengths in a bivalent denotes a 50. When only the maternal character is inherited by the offspring, it is known as \$1 and it is controlled by \$2. A mentally sick man will have aormal 53. The 54 is a chain of polymucleotides made up of 55, forming the backbone, 156 and 57 which are of two types, that 58 and 59 . The first nucleic acid to evolve is 50 and now performs 61 role in 62 synthesis. Prokaryotes have shorter life span than because both the 64 and 65 processes of protein synthesis occur in the 66 In a population of 10,000 people, 9,750 can smell properly. The gene frequency is 67 while the genotypic frequency is 68. The homozygote smellers are 69. The production of corn in a farm When some progenies are better than the good parent and some are worse than the bad parent it is mout 15 referred to as 73 as in 74 while the 76 associated with it while the 76 associated with it putting putting flyt midne that I gall having putting that I gall

ANSWERS TO BIO 201 HARMATTAN SEMESTER EXAMINATION

	2007/2008	SESSIO	N
Questn	Answer(Write in this column	Questn	Answer(Write in this column
no.	only)	no.	only)
1	His laws of inheritance	41	Pericentric inversion
2	Law of segregation & Dihybrid inheritance	42	Two chromosomal breaks
3	A pair of gene alleles	43	Two arms of Chromosomes
4	Father/male	44	Normal chromosome
5	Mother/female	45	Acentic chromosome
6	First/Monohybrid inheritance	46	Inverted chromosme
7	One pair of Contrasting	47	Dicentric chromosome
8	3:1	48	Break-fusion bridge
9	1:2:1	49	
10	Recessive gene	50	Eupolyploid
11	Dominant gene	51	Maternal inheritance
12	Homozygous	52	Cytogene
13	Heterozygous	53	Son/male
14	Hybrid	54	DNA
15	Contaminate	55	Phosphate group
16	Blend	56	Deoxyribose sugars
17	Segregate independently	57	Nitrogenous bases
18	Hereditable .	58	Purine base
19	Gene	59	Pyrimidine base
20	Non-hereditable	60	Ribonucleic acid
21	Acquired	61	Transcription
	1/2	62	Protein
23	Heterogametic	63	Eukaryotes
24	X, Y chromosome	64	Transcription
25	Homogametic	65	Translocation
26	X, X chromosome	66	
27	Polygenes	67	Cytoplasm
28	Major	68	$P = 0.842$ $q = 0.158$ $q^2 = 0.025$
29	Minor	69	$P^2 = 0.709$
30	Temperature	70	Polygenes
131	Soil type	71	Variation
32	Humidity	72	Monsense
33	22 pairs	73	Mis-sense
34	Autosomal	74	Sickle cell anaemia
35	Sex	75	Plasma membrane
36	Translocation	76	rRNA
37	50% .	77	mRNA
38	180°	78	Purine bases
39	Paracentric inversion	79	Pyrimidine bases
40	Paracentric inversion	80	Admine Uracil

1 1 (cm) (mill = 230 x 100% = 3.5% | P-7 = 1 1 1 x (cm) (mill = 230 x 100% = 3.5% | Alle to Inquiency P-0.843, 2 = 0.888 67 100 1 100 11 =10:00 - 7750