INTERIM JOINT MATRICULATION BOARD AHMADU BELLO UNIVERSITY ZARIA

INTERIM JOINT MATRICULATION BOARD EXAMINATION 2016

SUBJI	ECT:		BIOLOGY PAPER II: GENERAL BIOLOGY AND ZOOLOGY
DATE	SCHE	DULE	D: SATURDAY 13 TH FEBRUARY, 2016
TIME	ALLO	WED:	THREE HOURS (3 HRS)
INST	Ouest	ion ON	Answer questions ONE (1) and any THREE (3) other questions. E carries 40 marks. The others carry 20 marks each. Use clearly rams and examples to illustrate your answer wherever appropriate.
1.	a)	Explain	n the following terms:
		i. ii. iii. iv.	Genetic variations Linkage Crossing over Colour blindness
	b)	fathers mother group	d with blood group AB is a source of dispute between two contesting one with blood group B and the other father with blood group O. the r of the child has blood group A. Show using crossings how the blood of the child, disputing fathers and that of the child's mother can be used in ing the dispute.
	c)	Fill in	the blank spaces.
		i.	A nucleotide has three components, namely,, and
į.		ii.	The animal kingdom is made up of many phylogenetic phyla which include the followings.
			1. Protozoa 2. Coolentratalantedoria 3. Platyhelminthes 4. Nematoda 5. Anne h da

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		6. Molin Sca 7. Arthropoda 8. Vertebrata					
		iii. Three types of animal connectic tissues are and					
2.	a)	List any ten characteristics of the phylum. Annelida					
	b)	Give TEN (10) importance of earth worms in agriculture.					
3.	a)	Using a suitable labeled diagram, show the path of a sound vibration from the pinna to the inner ear naming the structures encountered at each point.					
	b)	Briefly discuss the mechanism of hearing.					
4.	a)	Explain the term evolution					
	b)	In a tabular form state the differences between Darwinism and Lamarkism.					
5.	Write	Write notes on any FOUR (4) of the following:					
	a)	Pituitary gland					
	b)	Sexual reproduction					
	c)	Factors affecting growth					
	d)	Competitive inhibitors					
	e)	Insulin					
	f)	Transportation of carbon dioxide in man.					
6.	Discu	ass in detail the genetic basis of Natural selection.					