Grade 12 Biology
Unit D – Classification

Name: Name:

Quiz PRACTICE QUESTIONS

Each question is two marks
Use a two page reference notes if you have one.

- 1. Why do biologists use a classification system to study the diversity of life?
- 2. The science of classifying organisms and assigning them universally accepted names is known as:
- 3. Circle the letter of each sentence that is true about early efforts at naming organisms
 - a. names were usually English
 - b. names were often described detailed physical characteristics of a species
 - c. names could be very long
 - d. it was difficult to standardize the names

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4.	Circle	the letter of each sentence that is true about binomial nomenclature:
	a.	the system is no longer in use today
	b.	each species is assigned a two-part scientific name
	c. unab	the scientific name is always written in italics (or at least underlined if le italics)
	d.	the second part of the scientific name is capitalized
5. organ		ne eight categories of taxa, from most general to most specific
6.	What	two Kingdoms did Linnaeus name? :
7. called		up of organisms at any particular level in a classification system is species genus taxon phylum

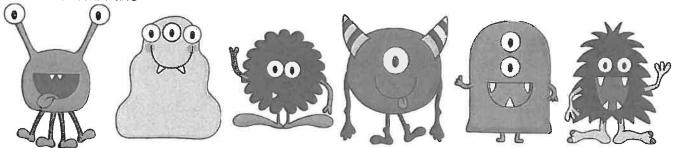
8.	As a	a practical definition of species, one can say that they are a group of	
org	anism	characterized by all of the following except they	
	A)	do not normally interbreed with other species in nature	
	B)	can be distinguished from other species	
	C)	are incapable of hybridization with other species	
	D)	remain relatively constant	
9.	Viru	ises are (supposedly?) denied a kingdom of their own because	
	A)	they are too poorly understood	
	B)	they are too small	
	C)	their genetics cannot be determined	
	D)	they are not organisms	
10.	In p	rinted scientific names, only the is capitalized.	
	A)	family	
	B)	class	
	C)	species	
	D)	kingdom	
	E)	genus	
11.		racteristics that have arisen as a result of common evolutionary descent	
are s	aid to		
	A)	analogous	
	B)	homogenous	
	C)	heterogamous	
	D)	homologous	
	E)	contiguous	
12.	A taxon consisting of the most closely related species is called a(n)		
	A)	family	
	B)	order	
	C)	genus	
	D)	phylum	

13.	The b	pinomial system of classification was developed by:
	A)	Darwin
	B)	Wallace
	C)	Linnaeus
	D)	Malthus
	E)	none of the above
14.	Whic	h one of the following sequences shows the correct hierarchy of
classi	ficatio	n, going from the most inclusive to the least inclusive?
	A)	Kingdom, Domain, Phylum, Order, Class, Family, Genus, Species
	B)	Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species
	C)	Genus, Species, Kingdom, Phylum, Order, Class, Family
	D)	Species, Genus, Family, Class, Order, Phylum, Kingdom
	E)	Domain, Phylum, Kingdom, Genus, Species, Family, Order, Class
15.	A cla	dogram conveys information about ancestors and descendants of an
orgar	nism.	
	A)	Trué
	B)	False
16.	What	t is taxonomy?
	a. the	scientific study of how living things are classified
	b. the	e name of Aristotle's classification system
	c. the	process used by geologists to classify rocks
	d. the	e process of observing an organism's behavior
18.	A cat	's scientific name is Felix domesticus, which genus does it belong to?
	a. Ca	
	b. Fe	· ·
		omial nomenclature
	d. do	mesticus
	•	

	19.	Circle the letter of each sentence that is true about cladistics analysis:	
		a.	it considers only traits that are evolutionary innovations
		b.	it considers all traits that can be measured
		c.	It considers only similarities in body structure
		d.	It is the method of evolutionary classification
20. Characteristics that appear in in recent parts of a lineage, but not in old parts are called			
	Romin	e •	
	Bonus:		
	What is a heterotroph?		

Identifying Aliens with a Dichotomous Key

Look carefully at the aliens pictured below. Use the dichotomous key to find the scientific name for each one.



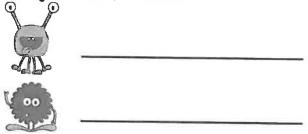
1	a. Mouth open go to 2
	b. Mouth not open go to 4

2	a. Arms	go to 3
	b. No Arms	Alienus quadlegicus

a. Hairy Alienus hairicus
b. Not hairy Alienus tritoothicus

4	a. No horns go to 5
	b. Horns Alienus stripicus

Write your answers below.









Each of these aliens belongs to the same genus. What is their genus?

Look at the species name for each alien. How do you think these names were chosen?