Name	e:	Pd:	Date:
	It Must Be Genetic L	Jnit Study	y Guide
1.	The definition of an environmental trait is:  a. a trait that is only available on Earth Day b. a trait that is passed down by an organi c. a trait that is developed when you are d. a trait that is developed by an organism	ism's biolog in a forest,	or jungle
2.	Genetic disorders can be caused by a. pedigrees b. DNA mutations or changes in chromosome c. Dominant alleles only d. Environmental factors as well as DNA mutar		
3.	Which genetic disorder causes the body to prointestines?  a. Hemophilia b. Down Syndrome c. Cystic Fibrosis d. Sickle-Cell Disease	oduce unu:	sually thick mucus in the lungs and
4.	<ul> <li>Which of the following best describes the general</li> <li>a. Genetic diseases are primarily passed from</li> <li>b. Genetic diseases most often are passed from</li> <li>c. Genetic diseases most often appear in indicallele</li> <li>d. Genetic diseases are only caused by environment</li> </ul>	one persoom parents viduals wh	n to another like a cold to a child o are heterozygous for a particular
5.	What are the two main causes of genetic disorda. Mutations and an unhealthy diet b. Lack of exercise and an unhealthy diet c. Mutations and changes in chromosomes st d. Changes in chromosome structure or number.	ructure or i	
6.	Which genetic disorder is caused by an extra cand developmental delays?  a. Hemophilia b. Down Syndrome c. Cystic Fibrosis d. Sickle Cell Disease	copy of the	e 21st chromosome causing cognitive
7.	What genetic disorder results in abnormally sho a. Hemophilia b. Down syndrome	aped blood	d cells?

8. Which of the following is NOT influenced by the environment?

a. Skin cancer

c. Cystic fibrosisd. Sickle-cell disease

b. Naturally blonde hair

c. Lung cancer

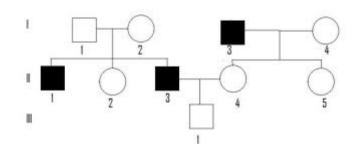
d. Obesity

9.	What are the three parts of the cell theory?
10.	The basic unit of structure and function of all life is the
11.	Multi-cellular organisms are composed of cells that vary in appearance. What is likely reason hese cells have different shapes?
12.	List, in order from least to most complex, the levels or organization in living things.
13.	ist 4 influential scientists that contributed to the development of the Cell Theory (include their contributions).
14.	n the creation of a baby, each parent contributes
15.	Define asexual reproduction.
16.	Explain why sexual reproduction produces greater variety in offspring.
17.	Define sexual reproduction.

18. Compare & contract the processes of MITOSIS and MEIOSIS.
19. Explain the difference between the haploid and diploid #'s in humans (when referring to chromosomes).
20. Chromosomes are made up of
21. Which chromosomes result in a female human being? male human being? male human being?
22. How does a geneticist use a pedigree?
23. A carrier is a person who
24. Colorblindness is a sex-linked trait on the X chromosome. Who can be affected by colorblindness?
25. What is a sex-linked gene?

- 26. A man that DOES NOT have hemophilia marries a woman who is a carrier. What is the probability of them having a child with hemophilia? Show the cross.
- 27. Explain the difference between incomplete and codominance.

- 28. In order for a child to display a recessive trait, what must be true of the parents?
- 29. What is the possible genotype for individual I-1?
- 30. What is the possible genotype of individual II-2?
- 31. What is the possible genotype of individual I-2?



- 32. Fred the fish has rainbow scales. His mother and father do not have rainbow scales. His 2 fish brothers, Frankie and Ferdinand do not have rainbow scales. His sister Fredina also has the rainbow scale trait. Fred married Francis, who does not have rainbow scales, and they had 2 boys and 1 girl, in which one of their boys and their girl each had rainbow scales.
  - a. Draw the pedigree for Fred's family AND label the genotypes for each family member.