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System -
Review Guide for Test: Review of Biology 1
Review Guide for Test: Review of Biology 1 1. List the hierarchy of life. Starting with an atom. Atom, Molecule, organile, cell organism, populator, community
2. Identify the following organelles and write the function of each organelle.
Z. Identity the following organishes and writes the range of the following organishes and the following organishes are the following organishes and the following organishes and the following organishes are the following organishes are the following organishes and the following organishes are the following organishes are the following organishes and the following organishes are the following organishes are the following organishes and the following organishes are the following organishes are the following organishes and the following organishes are the following organishes are the following organishes and the following organishes are the following organishes ar
i cuto : 2 chloroplast.
(0.0) 3 nucleus. y notochonaria. 5 cell membrane.
7 Ribosema.
3. List 5 of the characteristics of life. a. tomeostasis d. cells making of the characteristics of life.
b. evolve e. nords energy.
· c. Reyard
4. The cell membrane is made up of 2 layers of phospholipids. The phospholipid is made up of a polar heads, these are water loving, and a non-polar tail, that repels water.
5. The cell membranes allows some things like gases and water to move freely as needed but
keeps most large items out of the cell until needed.
6. Where does crossing over occur? Prophase I
7. Ewlogy is the study of HOW living things live TOGETHER.
8. Write the formula for Photosynthesis.
602+ 6tt20- C6tt20+602
a. Where does this process occur? <u>Chloreplant</u> 9. If you were looking at 2 cells. What would you be looking for to see if one of them was a
eukaryotic cell?
10. What are some differences between Passive and
Active transport? & P- Energy, low to high.
11. Using the image of the onion root cells, can you identify the cell that is in Interphase, Prophase, metaphase, and telophase.
identify the cell that is in Interphase, Prophase, metaphase, anaphase, and telophase.
T I I I I I I I I I I I I I I I I I I I
B ? FO FO FO
The identically
12. Mitosis is the production of two daughter cells that are (genetically identical, genetically
different). Meiosis is the production of two cells that are (genetically identical, genetically
different) 13. In a human, a <u>alphad</u> has 46 chromosomes and a haploid cell has <u>23</u> .
14. Write the formula for Cellular Respiration.
1002 + Gatt 200 - 6 H30 + 6 CO2
a Where does it occur? Mito chandria.
b. What process occurs if there is not oxygen present? Fermentation

15. During which phase is a cell plate produced? <u>Cytolandas</u>
16. DNA → RNA → Amino Acids →
17. Elephants are normally hairy (HH, Hh). On a rare occasion you will come across an elephant
that has very little hair (hh).
a. Genotype for heterozygous hairy elephant.
b. An elephant that is heterozygous for hair reproduces with an elephant that has very littl
hair. What are the phenotypic ratios of the offspring they could produce?
c. What does it mean if they are "carrying a gene of recessive trait"?
9 § 18. Are all mutations bad? No.
19. What is the difference between meiosis and mitosis?
18. Are all mutations bad?
20 DN Wis the cell's instruction for making proteins.
21. DNA is normally loose, but coils together to make thurse of the
21. DNA is normally loose, but coils together to make thum says and the following DNA strand: ATTGCCATA TARCES OF TATE ALL ALL 23. Transcribe the following DNA strand: AGGCCTTATAG MCCGGGAAUALC
23. Transcribe the following DNA strand: AGGCCTTATAG MCCOOTTATAG
24. When we are talking about evolution, if an organism can survive, they can $ve \neq v$ thus
producing offspring.
25. A Mutical is any change in the DNA sequence that changes the RNA, the amino acid, and
the resulting protein.
26. What is recombinant DNA?
27. Hybrids, like a liger are often infertile because <u>and Species</u> , and 28. Selective breeding can produce things like <u>purkloses</u> , fruits, and
28. Selective breeding can produce things like,,, and
habrids (give any 3 example)
29. What is the difference between predation and competition?
pred differences
30. List some examples of abiotic factors? Soil , water and ten?
a. Biotic? by, tres, and human.
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