CH 17 REVIEW

- **Regular rules**
- **USE ANYTHING YOU WANT-Except your phone***
- **Top Group gets 5 points extra credit**
- **Each team gets 2 points for a tie**
- **EVERYONE MUST BE IN A GROUP**

- **NEW RULE-ANY GROUP THAT DOES NOT SCORE 50% (10/20) LOSES 5 ON THEIR QUIZ TOMORROW**

- Pressures On….cover your answers

QUESTION 1

- _____ is when an organism evolves and is followed by a corresponding change in another organism
- **ANSWER- Coevolution**

QUESTION 2

- When nuclei are unstable, they spontaneously break apart, or decay, in a process called _____
- **ANSWER- Radioactivity**

QUESTION 3

- To be an _____ _____a species must have existed for a short time, but had a large geographic range
- **Answer- Index Fossil**

Question 4

- A _____-_____ is the length of time required for half of the radioactive atoms in a sample to decay
- **Answer- Half-Life**

Question 5

- Paleontologists use divisions of the _____ _____ _____to represent evolutionary time
- **Answer- Geologic Time Scale**

Question 6

- Eras are subdivided into _____, which range in length from tens of millions of years to less than 2 million years

- **Answer - Periods**

Question 7

- The _____ _____proposes that eukaryotic cells arose from living communities formed by prokaryotic organisms
- **Answer- Endosymbiotic Theory**

Question 8

- **True or False….** Four Half-lives will leave 25% of the initial radioisotope
- **Answer- False….four half-lives will leave 6.25%**

Question 9

- We are currently living in the _____ **Era**
- **Answer- Cenozoic**

Question 10

- The _____ _____at the end of the Paleozoic affected both plants and animals on land and in the seas
- **Answer- Mass Extinction**

Question 11

- Carbon-14 has a half-life of 5730 years. When an animal died, it had 84 grams of carbon-14 in its system, how much carbon-14 would remain in the animals bones after 22,920 years ?
- **Answer- 5.25 or 5 & 1/4**

Question 12

- _____ _____ tells us the sequence in which events occurred, not how long ago they occurred
- **Answer- Relative Dating**

Question 13

- What era did Dinosaurs dominate?
- **Answer- Mesozoic Era**

Question 14

- Each Eon is broken into _____
- **Answer- Eras**

Question 15

- What percentage of a radioisotope is left after 5 half-lives?
- **Answer- 3 & 1/8% or 3.125%**

Question 16

- A radioactive element has a half-life of 20 days. How much of a 16mg sample would be undecayed after 80 days?

- Answer- 1mg
- 0 days 20 days 40 days 60 days 80 days
- 16mg 8 mg 4mg 2mg 1mg

Question 17

- Oxygen was added to Earth's atmosphere by the process of _____
- Answer- Photosynthesis

Question 18

- _____ _____is when unrelated organisms come to resemble one another

- Answer- Convergent Evolution

Question 19

- _____ _____is when a small population evolve into diverse forms that live in different ways

- Answer- Adaptive Radiation

Question 20

- The large-scale evolutionary changes that take place over long periods of time are referred to as _____

- Answer- Macroevolution