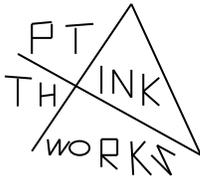


Name: _____
School: _____
Grade: 4 th 5 th



Elementary General Science #2

January 21, 2012

General Directions

This test will last for 40 minutes. There are 50 problems on the test.

Write all answers on your answer sheet.

Always use capital letters on your answer sheet.

You may write on the test and show work on the test. You are not required to show any of your work or calculations.

You may skip around on the test. All problems have only one correct answer.

Calculators may NOT be used on this test.

Scoring: All problems correctly answered are worth 5 points. Two points will be subtracted for all problems answered incorrectly. No points are subtracted for problems that are skipped.

Tiebreakers: (1) Percent accuracy (2) First problem missed (not counting skips).

Klein Oak Contest

January 21, 2012

General Science Test – 4th and 5th Grade

Choose the letter of the correct answer. You may skip around on this test.

1. What is the basic unit of structure of all plants and animals?
A. organ B. protein C. cell D. chromosome E. gene
2. When a population of animals moves from one location to another it is called:
A. regeneration B. migration C. adaptation D. evolution E. progression
3. To what class does a lizard belong?
A. marsupial B. amphibian C. fish D. mammal E. reptile
4. A human eats both plants and animals and is called a/an:
A. omnivore B. bivore C. herbivore D. multivore E. carnivore
5. The point underground where an earthquake's movement begins is the:
A. focus B. epicenter C. crater D. fault E. fracture
6. In mammals, which body system controls all other systems?
A. digestive B. circulatory C. respiratory D. nervous E. skeletal

7. How is a plant different from an animal?

- A. needs water to survive B. doesn't reproduce C. affected by climate
D. makes its own food E. many celled

8. What kind of muscle is present in arms and legs?

- A. fibrous B. variegated C. striated D. smooth E. active

9. What is the name of the smallest group in the classification of living things?

- A. genus B. class C. family D. phylum E. species

10. What is the process in which water is given off by plants?

- A. evaporation B. transpiration C. respiration D. condensation E. photosynthesis

11. To what class does a salamander belong?

- A. primate B. mammal C. amphibian D. bird E. reptile

12. Which of these is not a blood cell?

- A. monocyte B. dendrite C. leukocyte D. platelet E. lymphocyte

13. Which of the following is not considered an igneous rock?

- A. limestone B. granite C. lava D. obsidian E. pumice

14. Which of these is not an inner planet?

- A. Mars B. Venus C. Earth D. Saturn E. Mercury

15. What is the measure of the force of gravity on an object?

- A. speed B. polarity C. mass D. friction E. weight

16. Rocks that form when layers of rock are compressed and hardened together are called:

- A. metamorphic B. mineral C. igneous D. slate E. sedimentary

17. What does an anemometer measure?

- A. wind speed B. water pressure C. air pressure
D. precipitation E. earthquake magnitude

18. Which of these is not a part of the water cycle?
- A. snow B. evaporation C. salination D. rain E. condensation
19. The boiling point of water on a Celsius thermometer is:
- A. 290 B. 0 C. 212 D. 100 E. 32
20. The earth's atmosphere is a layer of gases that surround the planet. Which gas makes up the largest part of this layer?
- A. helium B. nitrogen C. oxygen D. hydrogen E. carbon dioxide
21. The tubes in plants that carry food from the leaves to other parts of the plant are called:
- A. phloem B. cotyledon C. xylem D. stomata E. veins
22. Which of the following sources of damage to an ecosystem is not caused by humans?
- A. acid rain B. drought C. pollution D. fertilizers E. construction
23. Two or more atoms bound to each other is:
- A. a nucleus B. an isotope C. a proton D. an ion E. a molecule
24. The most common fossil fuel is
- A. peat B. petroleum C. coal D. natural gas E. magma
25. Stars appear to rise in the east and set in the west because:
- A. stars orbit the Earth B. the Earth rotates on its axis C. stars move in their galaxies D. the Earth revolves around the Sun E. the moon orbits the Earth
26. What is the study of whales, dolphins, and porpoises?
- A. ornithology B. oology C. entomology D. cetology E. morphology
27. Steel is an alloy of metals made up mostly of what metal?
- A. iron B. tin C. copper D. nickel E. silver

28. Mutton refers to meat from which animal?

- A. turkey B. pig C. sheep D. cow E. duck

29. What is the largest mammal?

- A. sperm whale B. minke whale C. blue whale D. beluga whale E. fin whale

30. A typical human rib cage has how many ribs?

- A. 20 B. 24 C. 12 D. 28 E. 18

31. Cell division which produces gametes, or reproductive cells, is called:

- A. mitosis B. direct development C. osmosis D. metamorphosis E. meiosis

32. Which animal is not a vertebrate?

- A. bird B. amphibian C. mammal D. reptile E. mollusk

33. Which of these is not a part of the human skeletal system?

- A. ligaments B. cartilage C. bones D. spinal chord E. tendons

34. A mammal must have all of these characteristics except:

- A. live on land B. warm-blooded C. have hair D. make milk for their young
E. breathe air

35. Marie and Pierre Curie are best known for their research in:

- A. nuclear energy B. physics C. thermal energy D. radioactivity E. bacteriology

36. Which of these is not a part of an atom?

- A. neutron B. electron C. molecule D. nucleus E. proton

37. The sun's atmosphere is called:

- A. solar flare B. heliosphere C. corona D. sunspot E. photosphere

38. Which famous scientist is known for his study of genetics in a vegetable garden?
A. Pasteur B. Newton C. Goodall D. Mendel E. Faraday
39. What did Anton van Leeuwenhoek invent?
A. bifocal lens B. telescope C. thermometer D. incandescent lamp E. microscope
40. Which of these properties resists change in an object's motion?
A. acceleration B. inertia C. velocity D. position E. momentum
41. What is an ion?
A. an atom with a positive or negative charge B. an electron C. an atom with a neutral charge D. a proton E. a molecule with a neutral charge
42. The environment that meets the needs of an organism is its:
A. region B. population C. community D. habitat E. area
43. Which of these bones is not located in the human leg?
A. tibia B. fibula C. femur D. ulna E. patella
44. When a cell divides, the process is called:
A. digestion B. reproduction C. mitosis D. rupture E. osmosis
45. An organism which depends on a host organism to survive is called
A. parasite B. scavenger C. predator D. prey E. forager
46. What is the the process by which a plant converts energy to food?
A. digestion B. photosynthesis C. absorption D. respiration E. solar energy
47. What is the study of the relationship of organisms with one another and with their environment?
A. bioscience B. ecology C. biology D. botany E. anthropology
48. What kind of energy is produced by the movement of electrons?
A. nuclear B. thermal C. kinetic D. potential E. electric
49. An adjective that refers to cows is:
A. feline B. canine C. equine D. cervine E. bovine
50. What is the transfer of thermal energy through air or liquid?
A. explosion B. dispersion C. conduction D. convection E. refraction