Name: _____

Date: _____ Grade: _____

Basic Science Mysteries

CHAPTER 1 TEST

Congratulations on completing this chapter! ***Answer the following questions to test your understanding of the material. When you finish, hand in your test to your teacher for a final grade. Each answer is worth 1.69 points.***

Matching:

1. _____ Central Nervous System
2. _____ Muscular System
3. _____ Skeletal System
4. _____ Respiratory System
5. _____ Circulatory System
6. _____ Urinary System
7. _____ Digestive System
8. _____ Reproductive System
9. _____ Endocrine System
10. _____ Immune System

(a) breathing—lungs exchange oxygen for carbon dioxide
(b) processes food for use by cells by way of mouth, stomach, small intestine; solid wastes move through large intestine for elimination
(c) system of glands controlled by pituitary gland that produce hormones which control many processes including growth, metabolism and reproduction
(d) the body's transportation system; heart pumps blood through blood vessels, which oxygen and nourishment to cells
(e) the body's communication system, composed of brain, spinal cord
(f) responsible for reproducing offspring according to one's own kind; includes testes, sperm in males and ovaries, eggs in females
(g) responsible for body movement, made up of over 600 major muscles
(h) disposes of liquid wastes through kidneys and urinary bladder
(i) body framework, includes bones, ligaments, tendons, cartilage
(j) responsible for protecting body against invading pathogens

Multiple Choice: Choose the correct answer.

11. A particular place where an organism lives is its: _____.
    (a) work environment
    (b) surroundings
    (c) habitat
    (d) ecosystem

12. The relationship between living and nonliving things within an environment forms a(n): _____.
    (a) food chain (b) food web (c) ecosystem (d) coalition

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Multiple Choice *continued*

13. Fertilization is the process of: _____.
    (a) an egg being released from the ovary
    (b) a sperm and egg uniting
    (c) menstruation
    (d) sperm being manufactured in the testes

14. Which branch of science studies traits passed from parent to offspring? _____
    (a) physics
    (b) ecology
    (c) genetics
    (d) chemistry

15. What part of the cell carries information which determines traits of an offspring?
    _____
    (a) chromosomes
    (b) cell wall
    (c) blood
    (d) dominant molecules

16. What are the main organs of your respiratory system? _____
    (a) heart and blood vessels
    (b) voice box and pharynx
    (c) lungs
    (d) bronchial tubes and esophagus

17. What part of the blood delivers oxygen to the body tissues? _____
    (a) red blood cells (b) white blood cells (c) platelets (d) plasma

18. What do your senses enable you to do? _____
    (a) interpret events and remember them
    (b) make vibrations and associations
    (c) carry a pattern of sound through a medium
    (d) improve your memory

19. What is the first barrier between your internal organs and your environment? _____
    (a) eyes (b) ears (c) skin (d) skeleton

20. What waste product is released when you exhale? _____
    (a) perspiration (b) plasma (c) carbon dioxide (d) nitrous oxide

Matching:

21. _____ George Washington Carver	(a) famous neurosurgeon
22. _____ Ivan Pavlov	(b) behavioral experiments with dogs
23. _____ Gregor Mendel	(c) Germ Theory of Disease
24. _____ Ben Carson	(d) hundreds of peanut and sweet potato uses
25. _____ Louis Pasteur	(e) Father of Genetics

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Fill in the blank: Choose the correct word from the WORD BANK.

WORD BANK					
offspring	brain stem	brain	hormones	metabolism	heart
antibodies	genetics	vertebrae	respiration	large	small
producers	consumers	DNA	decomposers	emotions	senses
arteries	vital	veins	circumstances		

26. An organism's _____ refers to its extremely complex genetic code.
27. The _____ connects the spinal cord to the brain and controls automatic body activities.
28. The main parts of the _____ include the cerebrum, cerebellum and the brain stem.
29. _____ are chemical messengers in the body that control many processes.
30. An _____ is the product of equal genetic contributions of both a male and female parent.
31. The white blood cells produce _____ as part of the body's immune system.
32. _____ are bones composing the "backbone" that surround and protect the spinal cord.
33. The _____ intestine is where most digestion takes place.
34. _____ refers to the overall chemical/physical changes in an organism that produce energy and maintain life.
35. In the food chain, plants that make their own food are called _____.
36. Animals that eat plants or other animals are called _____.
37. Your _____ organs are body parts such as heart, brain and lungs, without which your body could not live.
38. _____ carry "clean" blood to the body.
39. _____ carry "dirty" blood back to the heart.
40. Your _____ include your ability to see, hear, taste, touch and smell things.

True or False: Write the correct answer.

41. _____ Single people live longer, healthier lives than do married persons.
42. _____ Learned behaviors cannot be changed.
43. _____ Life begins at conception.
44. _____ Experiments are used to test conclusions.

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True or False *continued*

45. _____ Mendel's experiments supported Darwin's Theory of Evolution.

46. _____ The way to avoid HIV is to avoid behaviors which would put you at risk for exposure.

Matching:

47. _____ Respiration	(a) released when you breathe out
48. _____ Thyroid	(b) body's "master gland"
49. _____ Carbon dioxide	(c) breathing
50. _____ Pituitary	(d) gland that controls how cells release energy
51. _____ Red blood cells	(e) germs
52. _____ Larynx	(f) voice box
53. _____ Hypothesis	(g) produced in bone marrow
54. _____ Mendel's Laws	(h) educated guess
55. _____ Pathogens	(i) inheritance patterns

Write the letter of the statement which gives the best meaning of each Life Principle.

56. *"Problems are opportunities in disguise."* _____
    (a) Problems like to disguise themselves.
    (b) Opportunities are always accompanied by problems.
    (c) Problems are always accompanied by opportunities.

57. *"Influence is passed from generation to generation."* _____
    (a) You get influence from your grandparents.
    (b) People act like they have been programmed or influenced by their families over time.
    (c) Generational influence may be overcome.

58. *"Most of the time we make the consequences we face."* _____
    (a) You are responsible for your actions and their consequences.
    (b) Making the consequences we face is an awesome responsibility.
    (c) We often face consequences beyond our control.

59. *"No pain, no gain."* _____
    (a) Everything is painful.
    (b) You have to work hard to reach worthy goals.
    (c) You won't be successful unless you have endured pain.

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