Sample Assessment - Entrance to Senior Biology

(correct answers marked *)

1. For any ecosystem the least number of organisms can be found in the

a) producer level

b) first order consumer level

c) second order consumer level

d) third order consumer level *

2. One place where ribosomes are found within the cell is

a. on the plasma membrane

b. in the nucleus

c. on smooth endoplasmic reticulum

d. in chromosomes

e. on rough endoplasmic reticulum *

3. Gametes usually contain:

a. the tetraploid number of chromosomes

b. the diploid number of chromosomes

c. the haploid number of chromosomes*

e . the polyploid number of chromosomes

4. All of the following organelles are derived from membranes except

a. rough ER

b. lysosomes

c. spindle fibres*

d. Golgi bodies

e. nuclear envelope

5. Consider the food chain: seeds-mouse-cat

In this case the cat is a

a. primary carnivore*

b. third order consumer

c. producer

d. first order consumer

6. Meiosis consists of:

a. four consecutive cell divisions

b. two consecutive cell divisions*

c. a single cell division

d. eight consecutive cell divisions

e. none of these

7. Producers are so named because they

a) convert light energy into chemical potential energy*

b) produce material from dead organisms

c) produce energy from nothing

d) produce carbon dioxide and water

8. Which of the following kingdoms contain only single celled organisms?

a. protista

b. animalia

c. planta

d. fungi

e. monera *

9. During which phase of mitosis do the chromatids separate?

a. metaphase

b. anaphase*

c. prophase

d. telophase

e. interphase

10. The migration pathway of an egg is:

a. ovary - uterus - fallopian tube

b. uterus - ovary - fallopian tube

c. ovary - fallopian tube - uterus*

d. fallopian tube - uterus - ovary

11. Undifferentiated tissue in the woody part of a dicot stem is called

a. phloem

b. meristematic tissue*

c. xylem

d. root tip

12. A sex linked characteristic is one which shows up on

a. the egg chromosome

b. the y chromosome

c. the x chromosome*

d. all of the chromosomes