

Choose the best answer. (30%)

1. Bioethics is an area that is concerned with _____ issues.
 - a. extinction
 - b. pollution
 - c. energy
 - d. all of the above
2. During which stage of development do the three germ layers appear?
 - a. neurula
 - b. gastrula
 - c. blastula
 - d. morula
3. Of the following, which has the highest birth rate?
 - a. Asia
 - b. Russia
 - c. United States
 - d. Western Europe
4. The unrestricted reproductive growth of a population is called its
its
 - a. proximate level.
 - b. biotic potential.
 - c. ultimate level.
 - d. carrying capacity.
5. Diverse and abundant life forms are least likely to be found
 - a. in deep ocean waters.
 - b. in continental shelf waters.
 - c. in mud flats.
 - d. along rocky coasts.
6. _____ are sensory receptors that function in olfaction and gustation.
 - a. Proprioceptors
 - b. Chemoreceptors
 - c. Thermoreceptors
 - d. None of the above
7. Which of the following drugs act by depressing the central nervous system?
 - a. caffeine
 - b. amphetamines
 - c. cocaine
 - d. opiates
8. Balance and coordination are controlled by the
 - a. medulla.
 - b. cerebellum.
 - c. midbrain.
 - d. thalamus.

9. Memory cells
- confer long-term immunity to infections.
 - have a short life span.
 - provide the first line of defense during an initial invasion of the body.
 - only participate in nonspecific responses.
10. Insects exhibit a chitinous
- endoskeleton.
 - hydrostatic skeleton.
 - system of spicules.
 - exoskeleton.

Answer the following questions

12. What is asexual reproduction? give some examples for both plant and animal respectively?(10%)
13. What is biodiversity? give some examples for both plant and animal respectively?(10%)
14. Explain how vectors such as plasmids are used to clone a gene.(10%)
15. What is a cell? give a diagram (figure) for illustrating both plant and animal structure respectively?(10%)

Terminology--explain the following terms. (30%)

pesticide
territoriality
primary consumer
zooplankton
succession
altruism
retina
spinal nerve
acquired immunodeficiency syndrome
tendon
vegetal pole
evolution
taxonomy
recessive
sex-linked trait