

MOCK EXAM FIVE

BIOLOGY

- 1) Which organelle is involved in the energy production of prokaryotic cell?
a) Chloroplast b) Nucleus c) Mitochondrion d) Endoplasmic reticulum.
- 2) The centriole is most like the ----
a) Lysosome b) Flagella c) Mitochondria d) Chromatin.
- 3) The tissues of the body are organized into----
a) Cells b) Body c) Organs d) Organelles.
- 4) Tissues that form long, tough strands, as in leaf stalk of celery plants are----
a) Epidermis b) Collenchyma c) Sclerenchyma d) Parenchyma
- 5) The three most common atoms in your body is----
a) Hydrogen, Oxygen, and Carbon. b) Carbon, Nitrogen, and Oxygen.
c) Carbon, Nitrogen and Oxygen. d) Nitrogen, Hydrogen and Oxygen.
- 6) The formation of large molecules from small repeating units is known as---
a) Oxidation b) Reduction c) Condensation d) Polymerization
- 7) A species from this group can cause sleeping sickness.
a) Trichomonas b) Trypanosoma c) Plasmodium d) Toxoplasma
- 8) The fertilized egg is called ----- a) Zygote b) Morula c) Blastula d) Embryo.
- 9) These creatures are responsible for recycling nutrients in the environment and returning them to the soil
a) Producers b) Consumers c) Decomposers D) Both consumers and decomposers.
- 10) What is the name for a chemical that complete with the substrate for a place at the active side? a) Prosthetic group b) Reversible inhibitor c) Competitive inhibitor d) End product inhibitor.
- 11) A chemical that contains carbon atoms and function to increase the rate of chemical reaction is called a (n)----
a) Aldehyde b) Ketone c) Hydrogenase d) Enzymes.
- 12) Plants needs which of the following to carry on photosynthesis
a) H₂ O b) CO₂ c) O₂ d) H₂ O and CO₂.
- 13) Which of these is the primary transport molecule for the movement of sugar from the plants leaves to the photosynthetic parts of a plant?
a) Glucose b) Polysaccharide c) Sucrose d) Fructose.
- 14) This process begins with the production of Acetyl-CoA:

a) Chemiosmosis b) Glycolysis c) Fermentation d) Krebs cycle

15) Which of these cellular parts is not constructed of a double membrane?

a) Nucleus b) Mitochondrion c) Ribosome

16) During the contraction of a striated muscle fiber a certain number of modification takes place

a) Reduction in length of the clean bands
b) Reduction in length of the dark bands
c) Reduction in length of the sarcolemma
d) Reduction in length of the myosin filaments.

17) Some of the following cells and tissues are directly responsible for the secretion oestrogen.

a) The external theca of the follicle b) The corpus luteum cells
c) Endometrial cells d) Granulosa cells

18) The amount of nitrogen found in a DNA molecule

a) Is equal to 46 since man has 64 chromosomes
b) Is variable with respect to the species
c) Is always equal to 1 irrespective of the species
d) Depends on the number of chromosomes

19) Magendie's experiments have permitted to demonstrate the role of nerve root. From these experiment it can be concluded that

a) The ventral root are sensitive b) The two roots are mixed
c) The dorsal roots are motor d) The ventral are motor

20) For a given species the chromosomal cycle is said to be diplophasic when

a) The haploid phase does not exist during the development of individual in this species
b) Fertilization is immediately followed by a reduction of mitosis in the zygote
c) The adult individual is diploid and thus lives its life span to maximum
d) Fertilization can only be internal