1- The three domains of life are

- (a) Bacteria, Archaea, and Eukarya
- b) Fungi, Archaea, and Prokaryote
- c) Protozoa, Animalia and Archaea
- d) Protista, Worm and, Eukarya

2- What occurs in meiosis but not mitosis ?

- a) cell membrane
- b) cleavage furrow
- c) cell plate
- (d) crossing over

3- Is the division of the cytoplasm following mitosis and meiosis?

- a) cytokinesis.
- b) cleavage
- c) crossing over
- d) binary fission

4- The movement of the sperm tail is due to the:

- (a) ATP provided by the mitochondria
- b) primary spermatogenesis
- c) spermatids
- d) the large number of sperm

5- The diploid chromosome number in / an organism is 42, the number of chromosomes in its sex cells is normally

- a) 63
- **b** 21
- c) 42
- d) 84

6- The process by which the ovum is produced is known as _____.

a) gestation.

(b) Oogenesis.

c) ovulation.

d) spermatogenesis

7- In kidney, Reabsorption means that water and valuable solutes are returned to the ______ from the filtrate

- a) renal pelvis
- b) renal cortex
- (c) blood
- d) glomerulus

8- Osmoregulation is the control of water and _____ gain and loss.

- a) acids
- b) bases
- (c) solutes
- d) enzymes

9- The pH of the filtrate is regulated by secretion of _____ and reabsorption of bicarbonate

- a) Na+ions
- b) Ca++ ions
- c) H+ ions
- d) K+ ions

10- Amphibians, lizards have ______ hearts which Permits blood diversion away from lungs when diving

- a) 3 chambers
- b) 1-chambers
- c) 4-chamber
- d) 2-chambers

11- ______ is poisonous nitrogenous waste, soluble in water and easily disposed by aquatic animals.

- (a) Ammonia
- b) Uric acid
- c) Urea
- d) Nitrate

12- Fresh water fishes, gain water through _____

- a) inactive diffusion
- (b) osmosis
- c) passive diffusion
- d) facilitated diffusion

13-_____is a type of asexual reproduction found in bacteria

- a) Gemmule
- b) Sporulation
- c) Fragmentation
- (d) Binary fission

14- The sex cells have:

(a) half the number of chromosomes in body cells.

- b) the same number of chromosomes as in body cells
- c) one quarter the number of chromosomes in body cells.
- d) twice the number of chromosomes in body cells

15- Fertilization combines two haploid sets of ______ from two individuals and activates metabolic changes that start embryonic development.

- a) chromosomes
- b) chromatids
- (c) gametes
- d) chromatin

16- The first part of the scientific name of an animal is the ______

- a) family
- b) order
- c) species
- d) genus

17-_____ animals gain most of their heat from their surroundings.

- a) Exothermic
- b) Epithermic
- c) Endothermic
- (d) Ectothermic

18- The function of the ______ system include, expels waste, regulates water and ion balance

- a) digestive
- b) respiratory
- c) excretory
- d) circulatory

19- Many fishes and ______ species exhibit external fertilization.

- a) reptiles
- (b) amphibian
- c) invertebrates
- d) vertebrates

20- During the cell cycle, chromosomes become duplicated and each duplicated chromosome is made of ______.

a) linear chromatid

(b) two sister chromatids

- c) one chromatid
- d) circular DNA

21- Heart systolic pressure is caused by _____

- a) atrial contraction
- (b) ventricular contraction
- c) ventricular relaxation
- d) atrial relaxation

22- Thermoregulation is the:

- a) Control of body water and solutes
- b) Maintenance of steady internal conditions.
- (c) Maintenance of internal temperature within narrow limits.
- d) Ability to regulate internal environment

23- The division of a somatic cells is called ______

- a) replication
- b) budding.
- c) mitosis
- d) meiosis.

24- All Cells Need _____

- a) nutrients.
- b) gas exchange.
- c) removal of wastes.
- (d) all of the above

25- White blood cells responsible for _____

- a) transporting O2 bound to hemoglobin.
- (b) fight infections and cancer.
- c) osmotic balance.
- d) pH buffering.

26- The use of bacteria to clean up pollution is called:

- (a) bioremediation
- b) nitrogen fixation
- c) metabolism
- d) biosphere

27- What is the main function of the blood platelets in the blood?

- a) defense and Immunity
- b) transport of O2 and CO2
- (c) blood clotting
- d) secretion of ADH hormone

28- The nephron is _____.

- a) the site of urine storage
- (b) the functional unit of the kidney
- c) the site where ADH is produced
- d) the site of energy storage

29- Sperm production is regulated by a negative feedback system of hormones and involves the______, pituitary, and testes.

- (a) hypothalamus
- b) thyroid
- c) thalamus
- d) ovaries

30- A ______ is a change in the nucleotide sequence of DNA.

- a) transcription
- b) translation
- c) modification
- (d) mutation.

Good Luck