

## Biology Test: sample questions

1. A short segment of DNA produced by discontinuous replication elongating in 5' – 3' direction away from replication fork is
  - a. Leading strands
  - b. Lagging strand
  - c. Okazaki fragment
  - d. A primer
2. The position of a gene on chromosome is called
  - a. Locus
  - b. Gene
  - c. Genotypes
  - d. Phenotypes
3. The limit of resolution of a light microscope is approximately?
  - a. 0.2um
  - b. 200nm
  - c. 0.2nm
  - d. 200um
4. In fish organ of exchange of respiratory gases
  - a. Gills
  - b. Nephridea
  - c. Skin
  - d. Kidney
5. Peptide bond is a link between
  - a. C – H
  - b. C – O
  - c. C – N
  - d. N – O
6. Major cell infected by HIV is
  - a. T. Lymphocyte
  - b. Suppressor T. Lymphocyte
  - c. Platelets
  - d. RBC
7. Which of the following is not found in all bacterial cells?
  - a. Cell Membrane
  - b. Nuclear membrane
  - c. Ribosome

d. Capsule

8. Substance which prevent clotting of blood.

- a. Insulin
- b. Haeme
- c. Heparin
- d. Fibrinogen

9. An environment that resemble to the internal solution is

- a. Hypotonic environment
- b. hypertonic environment
- c. Isotonic environment
- d. Imbalance environment

10. Each muscle cell contain a large number of

- a. Myofibrils
- b. Actin and myosin fibrils
- c. Sarcomeres
- d. A bands

11. Energy for muscle contraction comes from

- a. ATP produced during aerobic respiration
- b. By create Phosphate
- c. By lactic acid produced during anaerobic respiration
- d. All the above resources

12. What is a prototroph?

- a. A cell that can live on simple sugars and inorganic ions alone
- b. A cell that can photosynthesize
- c. A cell that cannot live in the presence of oxygen
- d. A cell that reproduces by binary fission or sexually
- e. A cell that uses carbon dioxide to form methane

13. Which RNA polymerase would be expected to direct synthesis of RNA of 5.8S, 28S, and 18S.

- a. Eukaryotic RNA polymerase I
- b. Eukaryotic RNA polymerase II
- c. Eukaryotic RNA polymerase III
- d. Mitochondrial RNA polymerase
- e. Prokaryotic RNA polymerase

14. In a cross between Aa and AA genotypes what percentage of the offspring are Aa.

- a. 10

- b. 25
- c. 50
- d. 75
- e. 100

15. Diploid number of chromosomes in a somatic cell are written as

- a.  $4n$
- b.  $3n$
- c.  $2n$
- d.  $6n$
- e.  $1n$

16. Human blood group ABO types are an example of dominance.

- a. incomplete dominance
- b. complete dominance
- c. codominance
- d. epistasis
- e. suppression