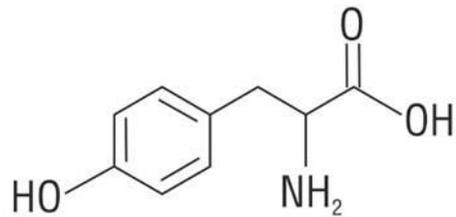


These questions are multiple-choice questions that ask you to select only **one** answer choice from a list of four choices. Each correct answer gives you one point.

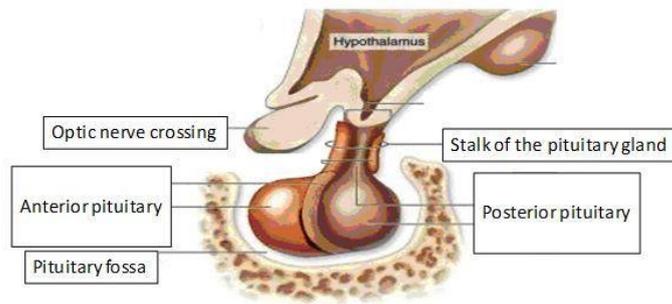
BIOLOGY

21 Which molecule is showed in the drawing below:



- A Purine base
 - B Pyrimidine base
 - C Sugar
 - D Amino acid
- 22 Which of the following statements is FALSE about muscle fiber?
- A Contains a lot of mitochondria.
 - B It is multinucleated cell.
 - C Contacts with neighboring muscle fibers by gap junctions (nexus).
 - D Stimulated by nerve fibers at synapse.
- 23 Which of the following cells are able to phagocytosis?
- A T lymphocytes, Neutrophiles
 - B Neutrophiles, Eosinophiles, Basophiles
 - C Macrophages, Microglial cells
 - D Pericytes, Monocytes
- 24 Which of the following cell type/s participate/s in the formation of myelin sheath in the central nervous system?
- A Schwann cells and oligodendrocytes
 - B astrocytes
 - C Schwann cells
 - D oligodendrocytes
- 25 The units of heredity are called:
- A DNA
 - B proteins
 - C genes
 - D chromosomes
- 26 Which of the following hormones is synthesized in the posterior pituitary?

Anatomy of Pituitary



- A antidiuretic hormone
- B growth hormone
- C melatonin
- D None of the answers are correct.

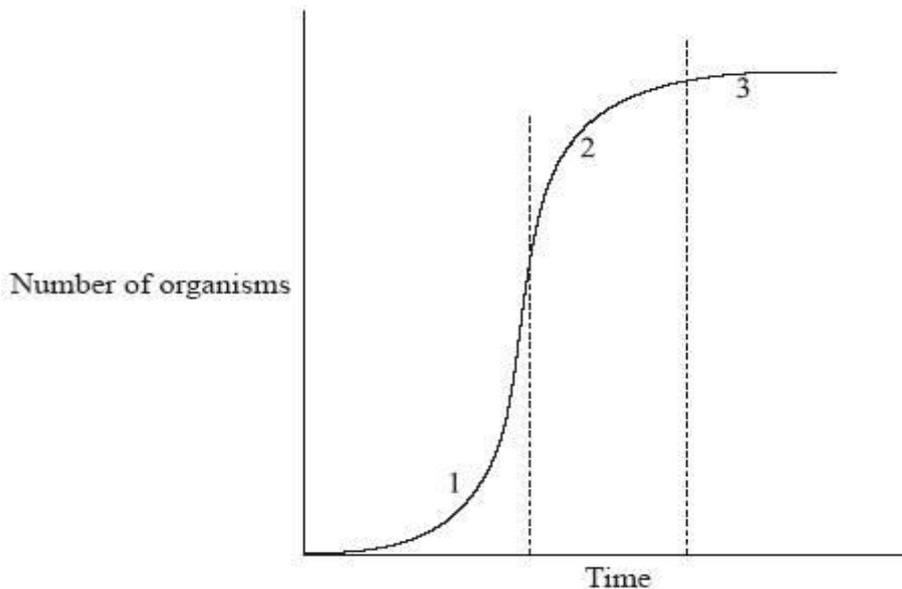
27 What is the reason for Okazaki fragments being formed during DNA replication?

- A To enable replication of the 3' → 5' (lagging) strand
- B To form the template for the RNA primers
- C To initiate replication on the 5' → 3' (leading) strand
- D To help the DNA helicase unwinding the DNA helix

28 In Hardy-Weinberg formula P² represents frequency of:

- A Recessive allele
- B Dominant allele
- C Homozygous dominant individual
- D Homozygous recessive individual

29 The diagram below shows a population growth curve. At which time in the population growth curve does the population size begin to decline?



- A Between the time marked 1 and 2
- B During the time marked 2
- C Between the time marked 2 and 3
- D The graph does not show a time when population size declines

30 Most multicellular eukaryotes form gametes by:

- A parthenogenesis
- B meiosis
- C mitosis
- D binary fission