

# Computer questions example for practical lessons

**Which of these statements about homeostasis is *true*?**

The internal environment is maintained absolutely constant.

Negative feedback mechanism act to correct deviations from a normal range within the internal environment

Homeostasis is maintained by switching effector actions on and off.

All of these are true.

**The tertiary structure of a protein is directly determined by the primary structure of the protein.**

genes.

enzymes that “mold” the shape of the protein.

the position of peptide bonds.

**The RNA nucleotide base that pairs with adenine in DNA is**

thymine.

uracil.

guanine.

cytosine.

**After the DNA molecule has replicated itself, the duplicate strands are called homologous chromosomes.**

spindle fibers.

centromeres.

chromatids.

**Nerve and skeletal muscle cells in the adult, which do not divide, remain in the**

G<sub>1</sub> phase.

S phase.

G<sub>2</sub> phase.

M phase.

**The phase of mitosis in which the chromosomes line up at the equator of the cell is called**

telophase.

prophase.

metaphase.

anaphase.

**Chemical modifications of histone proteins are believed to directly influence genetic transcription.**

geneic translation.

both transcription and translation.  
posttranslational changes in the newly synthesized proteins.

**Which of these statements about RNA is *true*?**

It is made in the nucleus.

It is doublestranded.

It contains the sugar deoxyribose.

It is a complementary copy of the entire DNA molecule.

**The organelle that combines proteins with carbohydrates and packages them within vesicle for secretion is**

the Golgi complex.

the granular endoplasmic reticulum.

the agranular endoplasmic reticulum.

the ribosome.