SELF-TEST CORNER OF MOLBIOL UNDERGRADUATE: DESIGNING OWN TESTS Part 2. Xenia Kim
*Posted By **Zaure G. Aytasheva**, February 7, 2015*

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13-10 Biotechnology

February 1, 2015 (Sunday!)

GENETIC ROLE OF NUCLEIC ACIDS

1.   What is deoxyribonucleoside?

    a)   RNA monomer

    b)   The complex of phosphate, a nitrogenous base and deoxyribose

    c)   Purine or pyrimidine bound to deoxyribose

    d)   The simplest unit of heredity

    e)   DNA monomer

2.   Which components of a nucleotide are bound to each other by N-glycosidic bond?

    a)   Pentose and nitrogenous base

    b)   Phosphate and deoxyribose

    c)   Ribose and deoxyribose

    d)   Adenine and Thymine

    e)   2 complementary nitrogenous bases

3.   What nitrogenous base is also known as 6-aminopurine?

a) Uracil

b) Guanine

c) Cytosine

d) Adenine

e) Thymine

4. According to Chargaff rules, in DNA:

   a) A=U

   b) C=50%

   c) C=G

   d) The secondary structure is double helix

   e) A+T=G+C

5. Which of the following compounds is not present in RNA?

   a) Ribose

   b) Phosphate group

   c) Major purines

   d) Uracil

   e) Thymine

6. What is the distance between two neighbouring nitrogenous bases?

   a) 0.34 nm

   b) 3.4 nm

   c) 2 nm

   d) 0.36 nm

   e) 0.6 nm

7. When did J. Watson and F. Crick discover the double helix?

    a) 1962

    b) 1953

    c) 1968

    d) 1956

    e) 1965

8. Uracil is:

    a) Purine

    b) Minor nitrogenous base

    c) Nucleoside

    d) Thymine isomer

    e) Pyrimidine

9. The net charge of DNA molecule is:

    a) Positive

    b) Equal to zero

    c) Determined by the charge of nitrogenous bases

    d) Negative

    e) Impossible to calculate

10. What are the similarities between DNA and RNA?

    a) The monomers are nucleosides, carry genetic information

    b) Both contain the ribose, responsible for translation

    c) The monomers are nucleotides including the pentose

d)   Single-stranded molecules taking part in gene expression

e)   Synthesized on the same template, contain nitrogenous bases

Instructor Z. Aytasheva

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