Nucleic acids and inheritance

- 1. The bonding between complementary base pairs is:
 - Van der Waal's forces
 - o Ester links
 - o Peptide links
 - Hydrogen bonding
- 2. The following base pairs can produce complementary base pairing:
 - A-G
 - T-C
 - A T
 - \circ T U
- 3. The type of reaction that forms the sugar-phosphate chains in DNA and RNA is:
 - o substitution
 - condensation polymerisation
 - o esterification
 - o addition polymerisation
- 4. The sugar present in the nucleotides of DNA is:
 - Deoxyribose
 - Ribose
 - o Glucose
 - o Fructose
- 5. Which of the following are pyrimidine bases?
 - o cytosine and adenine
 - o cytosine and guanine
 - o adenine and thymine
 - cytosine and thymine
- 6. Which of the following are purine bases?
 - o adenine and cytosine
 - o adenine and uracil
 - adenine and guanine
 - o adenine and thymine
- 7. The four bases in RNA are:
 - o adenine, guanine, thymine, uracil
 - o adenine, cytosine, thymine, uracil
 - adenine, guanine, cytosine, uracil
 - o adenine, guanine, cytosine, thymine
- 8. The sugars in nucleotides are:
 - o trioses
 - pentoses
 - o hexoses
 - o heptoses
- 9. Intramolecular bonds in nucleotides are formed by:
 - condensation reactions
 - o polymerisation reactions
 - esterification reactions
 - o hydrolysis reactions
- 10. The three components of nucleotides are:
 - a sugar, a phosphate group, a nitrogen-containing base
 - o a sugar, a phosphate group, an amino acid
 - o glucose, a phosphate group, a nitrogen-containing organic base
 - o glucose, a phosphate group, an ester