

**LPUNEST – Ph.D. Zoology
(Sample Questions)**

QUESTION 1

In a nucleoside the base is bonded to sugar by

- Option A covalently bonded to a sugar
- Option B ionically bonded to a sugar
- Option C hydrogen bonded to a sugar
- Option D none of these

QUESTION 2

A nucleic acid was analyzed and found to contain 32 percent A, 18 percent G, 17 percent C, and 33 percent T. The nucleic acid must be

- Option A single-stranded RNA
- Option B single-stranded DNA
- Option C double-stranded RNA
- Option D double-stranded DNA

QUESTION 3

Nucleotide bases and aromatic amino acids absorb light respectively at

- Option A 280 and 260 nm
- Option B 260 and 280 nm
- Option C 270 and 280 nm
- Option D 260 and 270 nm

QUESTION 4

The glycosidic bonds in DNA and RNA connect

- Option A the sugar to the phosphate
- Option B the sugar to the base
- Option C base to base
- Option D phosphate to phosphate

QUESTION 5

A nucleotide consists of

- Option A a sugar, a base and a phosphate
- Option B a sugar and two phosphate
- Option C a sugar and bases
- Option D none of these