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1. The oligonucleotide ligation assay (OLA) is commonly used to detect _____ known to be associated with human diseases with a high degree of accuracy.

Options:

a) Gene

b) Antigen

c) SNPs

d) Protein

Correct option: c) SNPs

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2. Which statement about the probe is correct?

Options:

a) The 5' end of the probe is labeled with a fluorescent reporter molecule.

b) The 5' end of the probe is labeled with a fluorescent quencher molecule.

c) The 3' end of the probe is labeled with a fluorescent quencher molecule.

d) The 3' end of the probe is labeled with a fluorescent reporter molecule.

Correct option: a) The 5' end of the probe is labeled with a fluorescent reporter molecule.

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3. Which method for the detection of penaeid shrimp viruses is now used routinely in a number of laboratories around the world?

Options:

a) DNA-based detection

b) ELISA-based detection

c) Probe-based detection

d) Protein-based detection

Correct option: a) DNA-based detection

4. In susceptible individuals, the first exposure to an allergen elicits the production of high levels of _____ antibodies that bind to mast cells.

Options:

a) IgE

b) IgM

c) IgG

d) IgA

Correct option: a) IgE

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