

Lecture 4.4 Quiz
Principles of Electronic Nanobiosensors
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Answer the **five questions** below by choosing the **one, best answer**.

- 1) The phrase 'Genome sequencing' means:
 - a) **Determining the sequence of bases in a genome.**
 - b) Cutting the genome into pieces.
 - c) Exchanging one segment of the genome with another.
 - d) Ability to personalize medical care.

- 2) A modern pH-based genome sequence machine is a
 - a) **Potentiometric Sensor.**
 - b) Amperometric Sensor.
 - c) Cantilever based sensors.
 - d) An optical tag-based sensor.

- 3) The diffusing species in a pH-based genome sequencer is
 - a) A virus.
 - b) A protein.
 - c) Segment of a DNA
 - d) **None of the above.**

- 4) The signal in a pH-based genome sequencer after incorporation of each base is a
 - a) Steady-state signal.
 - b) **A transient signal.**
 - c) A sinusoidal signal.
 - d) Depends on the base.

- 5) Potentiometric sensors need a reference electrode for stable signals. The reference electrodes are
 - a) Included in each of the wells.
 - b) Included in each of the reference wells, but not within the signal well.
 - c) **Included in each Chip– a single reference electrode for the entire IC.**
 - d) Not necessary for the IC technology.

End of quiz. This quiz contains 5 questions.