Genetic Engineering/Biotechnology (Review)

Use the following word bank to fill in the blanks below for Sections I through III:
nucleotides, protein, transformation, plasmid, bacteria, PGD, DNA, Human Genome Project, biological, recombinant

I. Genetic Engineering/Biotechnology

Genetic engineering or biotechnology involves the process of altering genetic material by the purposeful manipulation of _____. Genetic engineering has become of one of the most controversial issues of science. It will most certainly affect the future of our society and species. Biotechnology has already impacted the field of medicine, forensic science, and foreign policy involving _____weapons.

II. DNA Sequencing

Determining the order of _____ (A,T,C,Gs) that make up the genome of an organism is a lengthy task to say the least. The goal of the _____ _____ _____, initiated in 1990, was to do just this for the 3 billion base pairs that make up the human genome. The idea was to sequence the human genome so that scientists could begin to identify where defective genes coding for a myriad of disorders were located. So far, thousands of genes have been identified. Embryos can now be genetically tested for a number of genetic disorders. The parents can then opt to have only the healthy embryos implanted into the mother. This process is known as _____ (pre-implantation genetic diagnosis). ***See Section VII for a mock genetic test using***

Genetic Engineering Review

RJ Shavelson

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