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of bacteria, basic microscopy,
DNA purification, agarose gel
electrophoresis, and PCR
amplification of DNA.

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The three important techniques of biotechnology are: (1)

Recombinant DNA Technology
(Genetic Engineering) (2) Plant

Tissue Culture and (3) Transgenic
(Genetically Modified Organisms).

Technique # 1. Recombinant DNA
Technology (Genetic

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The third technology is a group of techniques called Bioprocess Technology. These are a series of engineering technologies that

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allow genetically engineered cells and hybridomas, as well as other types of cells, to be grown in large enough quantities to produce drugs for use

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1. Tissue Culture. Tissue culture is
one of the most widely used
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lab. 2. PCR.
PCR (Polymerase Chain Reaction)
is a technique used to make
many copies of a specific DNA
region in ...

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Biotechnology is broadly defined
in a 1991 Office of Technology
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o Supplement and enrich the lecture portion of the course, which deals predominantly with biotechnology techniques
o Develop critical

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For more than a decade, the
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dominated by recombinant DNA technology, or genetic engineering. This technique consists of splicing the gene for a useful protein (often a human protein) into production cells—such as yeast, bacteria, or mammalian cells in

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culture—which then begin to
produce the protein in volume.

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nucleic acids, remember that nucleic acids are macromolecules made of nucleotides (a sugar, a phosphate, and a nitrogenous base) linked by phosphodiester bonds. The phosphate groups on these molecules each have a net negative charge. An entire set of

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DNA molecules in the nucleus is called the genome.

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