

**BIOSCI 2014****10. Multiple Choice Questions**

1. The polymerase chain reaction is amplified because it allows us
- to insert arbitrary primers into specific genomes
  - to sequence joined sub-clones
  - to make DNA from RNA templates
  - to make many copies of a target DNA**
  - to insert arbitrary genes
2. Examples of cloning vectors are
- the plasmids that are DNA into restriction fragments
  - a DNA probe used to locate specific genes in the genome
  - plasmids used to replicate DNA in a host cell**
  - the laboratory apparatus used to clone genes
  - the synthesis of a microarray
3. Information obtained from the polymerase chain reaction (PCR) without the locus specific sequences of a specific cDNA
- sequence analysis**
  - SNP analysis
  - DNA sequencing
  - restriction analysis
  - translating a protein
4. The following species is responsible for making the rules to send cell messenger (DNA) technology in research labs
- USA
  - UK**
  - USA
  - India
  - USA
5. The following are the objectives of human genome project (HGP)
- identify genes in human genome
  - develop drugs to cure some genetic diseases
  - identify at least 100000 genes and their genetic organization**
  - identify regulatory sites for genetic diseases
  - make the data available to all public and scientists
6. It is possible to sequence genes from other species to profile species because
- all organisms contain same genes
  - the genes within all organisms
  - all organisms use the universal codons and sequence the genes**
  - each organism has its own codons for their proteins
  - all organisms follow same or similar proteins