

## Chapter 16 Study Guide

### 1. Describe the genetic material of prokaryotes, eukaryotes, viruses and plasmid

#### a. Prokaryotes

- i. No nucleus
- ii. Single circular chromosome composed of double stranded DNA
- iii. Code as  $4 \times 10^6$  as in *E. coli*
- iv. Codes for 3000 genes

#### b. Eukaryotes

- i. Located in the nucleus
- ii. Nuclear envelope separates it from the rest of the cell
- iii. Eukaryotic DNA is linear and distributed in more than one chromosome
- iv. DNA is bound to proteins (Histones & nonhistones) = protein DNA complex called chromatin
- v. Haploid human nucleus
  1. Egg
  2. Sperm
- vi.  $3 \times 10^9$  bp
- vii. Diploid cells in somatic cells contain  $6 \times 10^9$
- viii. Codes for 22,000-33,000 genes
- ix. Human DNA localized in 46 chromosomes
- x. Measures about 6 ft

#### c. Viruses

- i. Infectious
- ii. DNA (smallpox, chicken pox, papilloma virus, herpes virus)
- iii. RNA (AIDS, Influenza, SARS, Ebola)
- iv. Contains proteins and protein coat
- v. Lack system for replication, production of RNA and synthesis of proteins
- vi. In order to infect other cells, and sue their DNA, RNA and protein synthesizing machinery to reproduce
- vii. Infect both eukaryotic and prokaryotic cells

#### d. Plasmids

# Viruses And Prokaryotes Study Guide

**YCT Expert Team**



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