

PSYC 205 – HUMAN DEVELOPMENT

September 21, 2001

Lecture Review List - Exam #1 (part 1)

CRITICAL THINKING

Understand the 8 guidelines for critical thinking.

DEVELOPMENTAL THEORIES: CONCEPTS & RESEARCH

Know the 3 different aspects of development.

Understand the recurring issues in development: Nature vs. Nurture; Continuity vs. Discontinuity; Universal vs. Context-Specific.

Understand the 5 steps of the Scientific Method.

Understand the importance of random sampling.

Know the different forms of data collection.

Know the importance of Case Studies.

Understand Correlational Studies, including direction and magnitude of the correlation coefficient.

Also understand what correlational studies can and cannot tell us.

Understand Experimental Studies, including experimental and control groups and independent and dependent variables.

Understand Quasi-Experimental Studies, including longitudinal, cross-sectional and cross-sequential. Also understand the advantages and disadvantages of each.

DEVELOPMENTAL THEORIES

Understand the general focuses of different developmental theories: Psychoanalytic, Learning, Cognitive.

Understand the general focuses of Freud's Psychosexual Theory and Erikson's Psychosocial Theory.

Understand Classical Conditioning, including UCS, UR, NS, CS, CR.

Understand Operant Conditioning, including reinforcement (positive and negative) and punishment.

PRENATAL DEVELOPMENT AND BIRTH

Understand fertilization.

Understand monozygotic and dizygotic twins.

Understand zygote, embryo and fetus.

Understand genes, DNA, chromosomes and alleles.

Understand homozygous and heterozygous alleles.

Understand dominant, recessive, polygenic and multifactorial inheritance.

Understand genetic defects: dominant/recessive, sex-linked, abnormal/gene chromosome.

Understand family studies, adoption studies and twin studies.

Understand the germinal stage of the first trimester, including the time period when this stage occurs, zygote and blastocyst (including the inner and outer layers).

Understand the embryonic stage of the first trimester, including the time period when this stage occurs, blastocyst and embryonic disk (ectoderm, mesoderm, endoderm).

Know the time period of the fetal stage.

Know, in general, how development progresses in the second and third trimesters.

Know when a fetus can be viable outside the womb.

Know, in general, how prenatal behavior changes throughout the 3 trimesters.

Understand the basics of brain development, including cell differentiation & division, cell migration, cell maturation, myelination and "wiring phase".

New material will be added after class on Monday and on Wednesday...