EXAM FOUR EXPECTATIONS

ENVIRONMENTAL SCIENCE EXAM FOUR "Population Concepts"

STATE the formula for population growth

STATE the formula for "doubling time"

STATE the current size of the world's population

STATE the relationship between individual survivorship curves and reproductive strategies

STATE the goal of population ecology

STATE the relationship between population growth and socioeconomic condition

STATE prediction for human population growth in the decades to come

STATE the most important factor affecting human fertility rates

DEFINE population ecology

DEFINE population density

DEFINE demography

DEFINE carrying capacity

DEFINE population growth momentum

DEFINE replacement level fertility

DEFINE dieback

DEFINE environmental resistance

DEFINE zero population growth

DEFINE gender inequality

DEFINE voluntary simplicity

LIST the continent and countries who are growing most rapidly

LIST characteristics of r-selected and K-selected species

LIST factors that affect fertility rates (humans)

LIST the top three largest countries in terms of population

LIST services provided by family planning

LIST the countries with the greatest predicted population in decades to come

OUTLINE Thomas Malthus's ideas and contributions

OUTLINE intrinsic rate of growth

OUTLINE reasons for human population growth

OUTLINE the relationships between population growth and economics

OUTLINE the reasons for high fertility in developing countries

DESCRIBE family planning measures in India

DESCRIBE the Poverty Action Lab

CALCULATE population growth rates

CALCULATE doubling times for a population

IDENTIFY exponential and logistic growth curves on a graph

COMPARE immigration and emigration

COMPARE exponential and logistic growth

COMPARE K-selected and r-selected species

COMPARE the different survivorship curves

COMPARE density dependent and density independent limiting factors

COMPARE characteristics of countries in each of the 4 demographic stages

DISCUSS Nigeria's population today and in the future

EXPLAIN why establishing a carrying capacity for humans in so difficult

EXPLAIN the relationship between education and fertility rates

PREDICT which organism has highest/lowest intrinsic rate of increase

PREDICT population growth from age structure diagrams

EVALUATE population growth rates and PREDICT the relative rate of growth form them

ANALYZE age structure pyramids

ANALYZE marriage data and births and draw a conclusion