

STUDY GUIDE – CHAPTERS 52-56

Multiple Choice Topics (77 points)

- levels of organization
- species range
- biomes (locations/climate)
- abiotic/biotic factors
- terrestrial ecosystems
- aquatic ecosystems/zones
- exotic/introduced species
- population density
- dispersion patterns
- population growth formulas
- exponential growth
- logistic growth
- carrying capacity
- K-selected species
- R-selected species
- density-dependent regulation
- density-independent regulation
- population growth curves
- capture-recapture method/formula
- niche
- fundamental niche
- realized niche
- cryptic coloration
- aposematic coloration
- Müllerian mimicry
- Batesian mimicry
- 10% rule
- food chains/webs
- keystone species
- species diversity/richness
- matter cycles, energy flows
- producer, consumer, decomposer
- herbivore, carnivore
- autotroph, heterotroph
- net primary productivity
- gross primary productivity
- trophic efficiency (how to calculate)
- carbon cycle
- biomass
- island biogeography
- mutualism
- parasitism
- commensalism
- predation
- marine food chains
- habitat fragmentation
- eutrophication
- ozone layer
- biological magnification
- greenhouse effect
- acid precipitation
- global warming

Free Response Topics (25 points)

- carbon cycle
- population growth curve
- species interactions
- experimental design
- claim-evidence-reasoning

