Key terms from the text: *The Global Casino*

Chapter 1

Physical Environment (biotic and abiotic)
Spheres (lithosphere, atmosphere, biosphere, hydrosphere)
Ecosystems
Biomes (2-6)
Photosynthesis (7)
Food Chains (7)
Trophic Levels (8)
Dynamic Equilibrium (10)
Positive and negative feedbacks (11)
Thresholds (11)
Cumulative Impacts (11)
Resistance and Resilience (12)
Time and space scales (13-16)

Chapter 2

Cultural appraisals (20)
Driving and mitigating forces (21)
Resources (continuous, renewable, non-renewable) (21)
Malthusian Perspective (22)
Technology (23)
Urbanization (24)
Industrial Revolution (24)
Resource flows (25)
Tragedy of the Commons (26)
Overexploitation (26)
Undervaluation of resources (26)
Market based solutions
Spatial and intergenerational inequalities (27)
Commodity pricing (28)
Pollution havens (29)
Affluence and consumption (30)
Land tenure (31)
Ecocentrism (34)
Technocentric approaches (34)
Cornucopian (35)
Deep ecologists (35)

Chapter 3

Sustainable development (38, 43)
Environmental determinism (38)
Environmental possibilism (38)
Cultural, economic and social determinism (38)
Throughputs (39)
Anthropocene (42)
Parasitic relationship (43)
Symbiotic relationship (43)
Economic and Ecological worldviews (44)
Strong and weak sustainability (45)
Precautionary principle (45)
Life-cycle analysis (46-47)
Environmental economics (47)
Output and Input Rules (49)
GDP and GNP (50)
IPAT (50-51)
Carrying Capacity (53)
Population and Malthus (54-55)

Chapter 4

Deforestation (57)
Colonization (60)
Cattle ranching (62)
Slash and burn and shifting cultivation (62)
Export crops (63)
Run-off (65)
Erosion (65)
Soil degradation (66)
Compaction (66)
Nutrient content (66)
Localized effects (67)
Evapotranspiration (68)
Ecological specialization (68)
Fragmentation (69)
Biogeochemical cycles (69)
Eco-imperialism (71)
Debt for nature swaps (71)
Sustainable management (73)
Low-intensity harvesting (75)

Chapter 5

Desertification (79-80)
Semi-arid and sub-humid (80)
Time and space variability (81)
Intensive grazing (83-93)
Over-cultivation (83-93)
Over exploitation of vegetation (83-93)
Piospheres (86)
Sacrifice zones (86)
Fallow periods (87)
Monocultures (87)

Mechanized agriculture (88)
Fuelwood (88)
Salinization and secondary salinization (90)
Irrigation (90, 98)
Aquifers (93)
Cash crops and subsistence crops (97)

Chapter 10

Urban sprawl (188)
Continuous and synergistic impacts (190)
Groundwater pollution (192)
Ground subsidence (193)
Seawater intrusion (194)
Urban heat island (196)
Urban air pollutants (196-197)
Waterborne diseases (203)
Urban ecological footprints (205)

Chapter 11

Earth orbit perturbations (210-211)
Little ice age (211-212)
Enhanced greenhouse effect (212)
Surface albedo (213)
Greenhouse trace gases (214)
General circulation models (GCMs) (219)
Synergistic effects (226)
Framework Convention on Climate Change (230)
Emissions trading (230-231)
Kyoto Pledge (230-231)
Clean Development Mechanism (231)
Adaptive responses (232)

Chapter 13

Holocene (256)
Domestication (257)
Hunting and gathering (256)
Open field and mixed farming (258)
Green revolution (258-259)
Factory farming (259)
Farm waste (259)
Natural and synthetic fertilizers (260)
Nitrogen cycles (260-261)
Nitrogen fixation (261)
Salinization and water logging (262)
Land subsidence (263)
Pesticide resistance (264-265)
Integrated pest management (267)
Biological control (267)
Environmental control measures (267)
Biotechnology (268)
Genetic engineering (269)
GMO's (269-271)
Sustainable Agriculture (272)
Food security (273)
Food insecurity (274)
Aquaculture (274-276)
Blue revolution (275)

Chapter 18

Biomass and fossil fuels (355)
Nuclear, tidal and geothermal power (356)
Cogeneration (357)
Renewable energy (358)
Hydropower (359)
Wind energy (359)
Solar power (361)
Passive solar energy (361)
Thermal electric generation (361)
Photovoltaic energy (361)
Processed and unprocessed Biomass (362)
Tidal power (363)
Geothermal energy (364)
Increasing efficiency (367)
Nuclear power (368)
High and low level waste (369)