

STUDY GUIDE FOR THIRD EXAM

- I. Different ecological niches.
 - a. Estuaries
 - b. Mangroves
- II. Ghost and Mystery Ships
 - a. How are they different
 - b. The Mary Celeste: What was the problem that caused the ship to be lost?
 - i. What kinds of laws were involved (THINK ABOUT LEGAL ASPECTS OF THE OCEAN)
- III. Mythical animal
 - a. What are the mythical animals associated with the ocean?
 - i. In this culture
 - ii. In other cultures?
 - b. What animals are thought of as the “models” for these?
 - c. What might be suggested as alternate reasons for the existence of these mythical beasts
- IV. Weird part of the ocean
 - a. Bermuda Triangle, Devil’s triangle, Sargasso Sea
 - i. Why are they strange
 - ii. Are there really problems in these places? What might account for the events
- V. Primary Producers
 - a. Photosynthesis: How it works, which organisms do it?
 - i. Algae: mostly 1 celled but also “macro algae” (seaweeds, kelp, etc.)
 - b. Chemosynthesis: Where does it happen? How does it work:
 - i. Hydrothermal vents (black smokers)
 - ii. Organisms: tube worms
- VI. Food chains and food networks
 - a. Levels of chains from primary producers to apex predators
 - b. What happens when some level is disrupted?
 - c. How is the energy from consuming used? In what percentages?
- VII. What things come from the ocean? Food, minerals, energy, pharmaceuticals
 - a. Kinds of things and where they come from
- VIII. Culture: Culture vs. culture(s)
 - a. Definitions
 - b. Qualitative vs. quantitative differences
 - c. Relationship to Language/language(s)
 - d. Symbolism
 - i. Distinct from signs
 - ii. Abstract symbols
- IX. Social structure vs symbolic aspects
 - a. Social organization
 - b. Technology (increased result from same human energy)
 - i. Hunting and gathering; horticulture; agriculture
 - ii. Catching single fish; netting (multiple fish) fish farming

- X. Fishing
 - a. Development of fishing (100,000 years and 40,000 (pelagic)
 - b. Fishing overfishing
 - c. Legal remedies: Canada and Grand banks cod fishing
 - d. Types commercial fishing techniques
 - i. Gill nets
 - ii. Purse seine
 - iii. Trawls
 - iv. Longlines
 - e. Types of overfishing
 - i. Recruitment overfishing
 - ii. Growth overfishing
 - iii. Demise of specific fishing industries (15 years)
- XI. Stock replenishment
 - a. Can stocks recover?
 - i. Evidence in both directions (i.e. yes and no)
 - ii. What factors can influence stock replenishment
- XII. Magic, Science and Religion
 - a. History of study: manipulation vs. supplication
 - i. Magic (manipulation - pseudo science but cause and effect)
 - 1. Often in high risk situations (sea faring, commercial diving)
 - ii. Religion (supplication)
 - iii. Science (manipulation - cause and effect)
 - b. Religion (belief in spiritual beings)
 - i. Differences in other cultures (one vs. many religions, revealed texts,
 - c. Functions of magic
 - i. Examples
- XIII. Food tabus
 - a. Biblical prohibitions
 - i. Explanations
 - b. Lent (carnival – farewell to meat); meatless Fridays
 - c. Other
 - i. Eating oysters
- XIV. Rituals and Rites of Passage
 - a. Purification (water cleans) and by extension “salt”
 - b. Body modification and changes of status
 - i. Crossing the line ceremonies.