

The fourth hour exam covers these principal topics: systems, models, rivers, flood plains and dams.

What are the five principal classes of landforms?

What are the basic types of systems?

How and why is a river system (such as the Mississippi) an example of a process-response system?  
An intelligent system?

What are stream orders? What are drainage patterns (stream networks)? What do these reveal about the drainage basin? Why is the drainage pattern a kind of morphological model?

Why are people attracted to flood plains?

What benefits are associated with the construction of dams and reservoirs? What problems or costs are associated with construction of dams and reservoirs?

What typical landform features are associated with rivers and flood plains?

What is unique or special about each of the following rivers: the Colorado, Tennessee, Nile, Yangtze?

What is the Gaia Hypothesis? How does it relate to systems theory?