

Name _____

APES Topic 11 – Energy Resources

Date _____

Mr. Romano

APES FREE RESPONSE PRACTICE

Dams are built by humans for various purposes including hydroelectric power generation and control of downstream flooding.

- (a) **Explain** how electricity is generated at a hydroelectric dam.

- (b) **Identify** TWO economic benefits, other than hydroelectric power generation and control of downstream flooding, associated with dams.

- (c) **Describe** one ecological benefit of seasonal flooding of the floodplain of a free-flowing river.

- (d) Some dams have been removed from rivers.
 - (i) **Explain** how removal of a dam can benefit fish populations.

 - (ii) **Describe** one negative environmental consequence of removing a dam from a river (other than effects on fish populations).

- (e) Dams are also built by beavers, a keystone species in some North American ecosystems.
 - (i) **Define** keystone species.

 - (ii) **Describe** how dams built by beavers can make beavers a keystone species in some ecosystems.