## HYDROELECTRIC POWER

1. Fill in the gaps with words provided. Beware of the spelling or it will be marked as a mistake.

electromagnetic

elevation

electricity

flow	flowing	gravitational	level	mechanical
pumped	released	reservoir	rotors	
HEP is energ	y obtained from	fast wate	r. The	energy created by
moving wat	er spins	on a turbine, wh	ich is connected to	an
generator th	nat produces	A	is a large barrier	built to raise the
	of water and co	ntrol its T	he cre	ated by the dam
creates a	f	orce for turning the	turbine when water is	s
Some dams	contain an additi	onal a	at the base where wa	ter is stored to be
	to the h	igher reservoir for re	lease when electricit	v is in

- 2. Classify the following statements into advantages (A) or disadvantages (D) of HEP:
  - · Building of dams impacts the natural flow of water
  - Creates very little pollution

demand

dam

- Dams are expensive to build
- · Decomposition of plants under water generates methane.
- · HEP dams help reduce the risk of flooding
- It does not contribute to global warming, ozone depletion and does not cause acid
  rain
- · It does not produce carbon dioxide
- Large amounts of cement are used to build the dam, which produces carbon dioxide.
- · Large areas of farm land are flooded
- Limited choice of suitable sites, generally in remote areas so distance power lines need to be built.
- Loss of biodiversity

- Once up and running, it is one of the cheapest ways of making electricity
- · People may be forced to relocate
- · Renewable (Unlimited supply)
- Reservoirs may be used for recreation
- Villages and ecosystems may be destroyed when dam and reservoirs are built
- Water is neither consumed nor contaminated so it can be used downstream for other purposes
- · Wildlife habitats are lost