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What is Fisheries?

Fisheries is the body, department or setup that deals with all the aspects about harvesting or raising of fish. It deals with the aspects like type of fish, purpose of cultivation and harvesting that particular type of fish, way of fishing and type of boats used for that purpose.

What is pisciculture?

• The breeding, rearing and transplantation of fish by artificial means is called pisciculture, in other words, fish farming.
• It involves raising fish commercially in tanks or enclosures, usually for food.

What is Aquaculture?

It is the farming of aquatic organisms such as fish, shellfish and even plants thus it involves the production of all types of aquatic organisms in water bodies. It refers to the cultivation of both marine and

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freshwater species and can range from land-based to open-ocean production.

What is Mariculture?

It involves the cultivation of only marine organism unlike any aquatic organism.

This is the method of fish farming which is done usually on very broader scale means by forming an enclosed section in the ocean. It is done mostly to obtain commercial products by marine organisms like cosmetics, fish meal, cultured pearls etc.

Capture fisheries:

• It is intended for catching fishes, prawns, lobsters, crabs, molluscs etc.
• Capture fisheries is exploitation of aquatic organisms without stocking the seed.

• Recruitment of the species occurs naturally.

• This is carried out in the sea, rivers, reservoirs, etc.

• Capture Fishery can be classified into Marine Fishery and Inland Fishery.

Culture fisheries:

• Culture fisheries is the cultivation of selected fishes in confined areas with utmost care to get maximum yield.

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• The seed is stocked, nursed and reared in confined waters, then the crop is harvested.

• Culture takes place in ponds, which are fertilized, and supplementary feeds are provided to fish to get maximum yield.

Some of the important points and terms:

•Estuaries provide habitats for a large number of organisms and support very high productivity.

• Two of the main challenges of estuarine life are the variability in salinity and sedimentation.

• Many species of fish and invertebrates have various methods to control or conform to the shifts in salt concentrations and are termed osmoconformers and osmoregulators.

• Many animals also burrow to avoid predation and to live in the more stable sedimental environment.

• However, large numbers of bacteria are found within the sediment which have a very high oxygen demand.

• This reduces the levels of oxygen within the sediment often resulting in partially anoxic conditions, which can be further exacerbated by limited water flux.

• Plankton are key primary producers in estuaries. They move with the water bodies and can be flushed in and out with the tides. Their productivity is largely dependant upon the turbidity of the water. The main plankton present are diatoms and dinoflagellates which are abundant in the sediment.

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• It is important to remember that a primary source of food for many organisms on estuaries, including bacteria, is detritus from the settlement of the sedimentation.

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