



STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION - L3

BOTANY



PANKHURI MA'AM

FREE FOR 14 DAYS!



ANTHE

AAKASH NATIONAL TALENT HUNT EXAM

— **Your Gateway To Success** —

For Class VII to XII

Current Students & Passouts



MON - SAT
4PM - 8PM

DROPPERS
BATCH

MON - FRI
2PM - 4PM



NEET

**STUDENTS'
SURVEY**

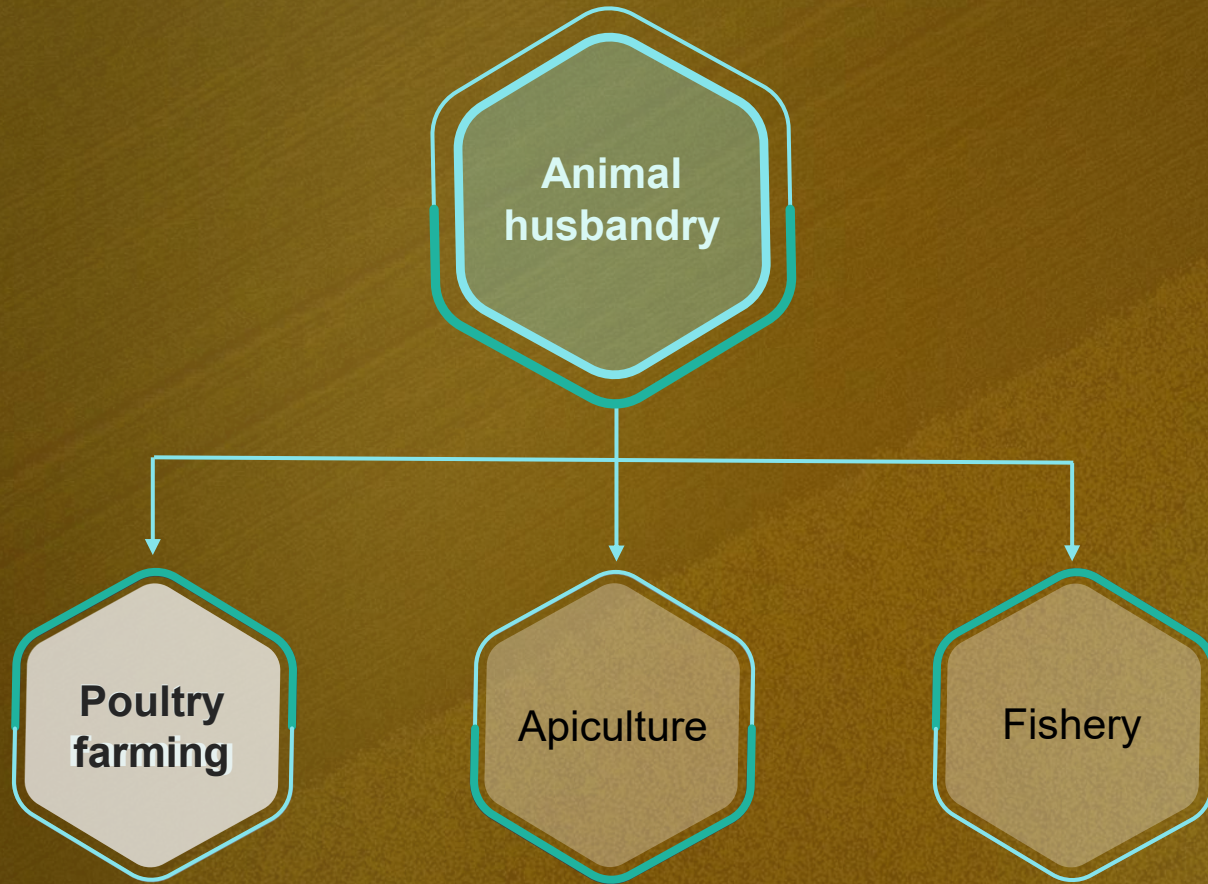
**LINK IN
DESCRIPTION**





<https://t.me/neetaakashdigital>





Poultry farming



Poultry Farming

- ❖ Rearing of domestic fowls (birds) for their eggs and meat



Chicken



Turkey

POULTRY



Duck



Goose

Types of Poultry

Broiler

Broiler :- Meat production

Layer

Layer :- Production of eggs

Breeders

Breeder :- For mating

Conditions for poultry



Poultry Farming

Birds are kept in coops in barn



Conditions

Poultry Farming



Birds are kept in coops in barn

Birds are provided with proper food and water



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Coop is regularly cleaned to avoid any infections



Conditions

Poultry Farming



Birds are kept in coops in barn

Birds are provided with proper food and water

Coop is regularly cleaned to avoid any infections

Optimum light is required for egg production



Conditions

Poultry Farming- Advantages

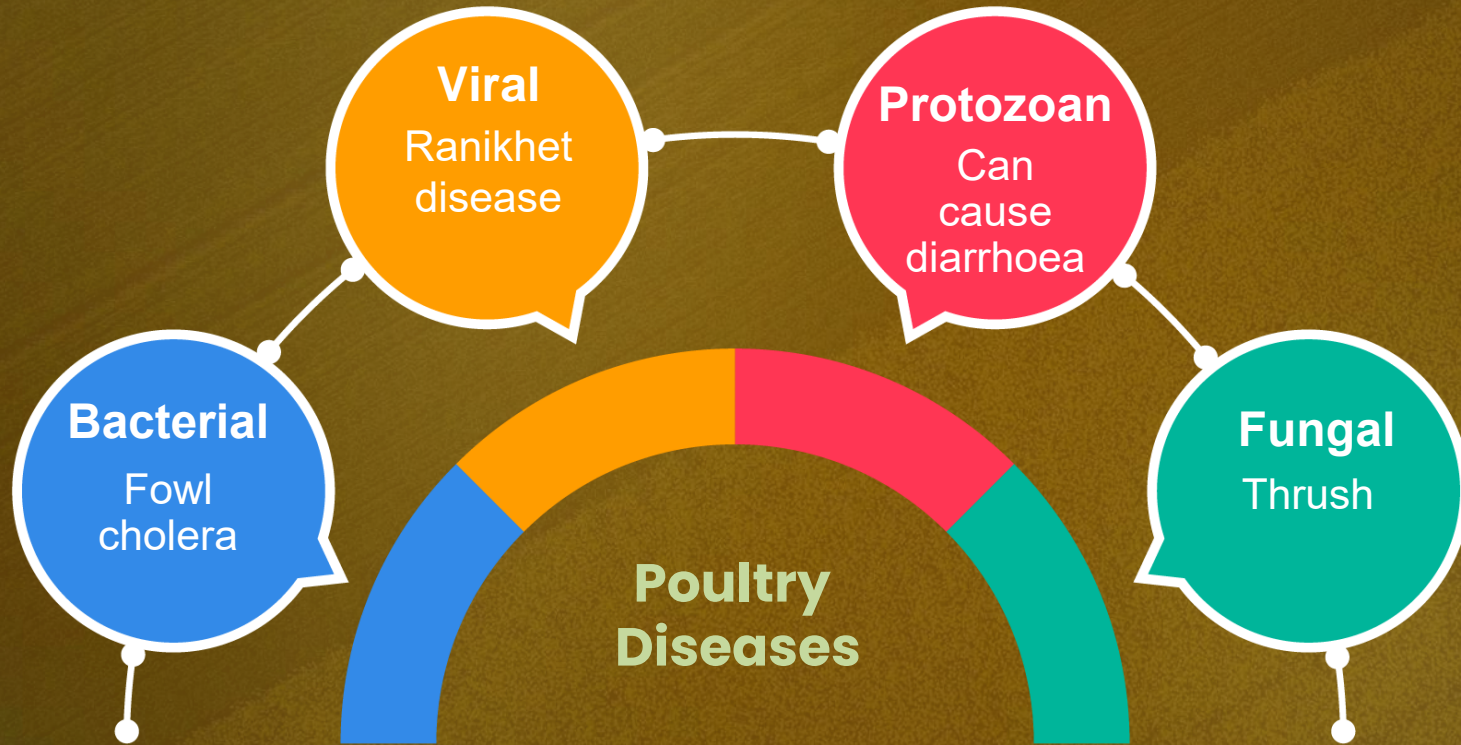
Easy to raise

Cost-effective
maintenance

Effective meat
and egg
production

Require
less space
to manage

Poultry Diseases



Viral Poultry Disease

Newcastle / Ranikhet Disease

Respiratory disease characterized by coughing, sneezing caused by **Newcastle virus**.



Viral Poultry Disease

Bird Flu

- ❖ Resembles influenza caused by H5N1 virus.
- ❖ This virus can enter humans through chickens.



Poultry Farming

Disease Prevention

- ☒ Ensure proper cleanliness
- ☒ Provide better nutrition
- ☒ Timely vaccination and medication





Apiculture

Apiculture

Care and management of honeybees for:



Honey



Beeswax

Apiculture

Honey



- ❖ Obtained from honeycomb
- ❖ Used in cosmetics, polishes.

- ❖ One of the oldest sweetening agents
- ❖ Contains 2 sugars: Dextrose, Levulose
- ❖ High nutritive value



Beeswax

Apiculture



Apis dorsata



Apis mellifera



Apis indica



Apis florea

Apiculture

Social organisation of honey bee



Drone



Queen



Worker

Apiculture

Queen Honey Bee

- ❖ Large
- ❖ Usually only **one** in a colony
- ❖ Diploid, fertile female
- ❖ Lays both fertilised and unfertilised eggs



Apiculture

Drone Honey Bee

- ❖ Smaller than queen
- ❖ ~200-300 in a colony
- ❖ Haploid, fertile male
- ❖ Fertilises the queen's eggs



Apiculture

Worker Honey Bee

- ❖ Smaller than queen
- ❖ ~200-300 in a colony
- ❖ Haploid, fertile male
- ❖ Fertilises the queen's eggs



Apiculture

Points that are important for successful beekeeping:

Knowledge of bees and their habits

Selection of proper location for keeping beehives

Management of beehives during different seasons

Proper handling and collection of honey & beeswax

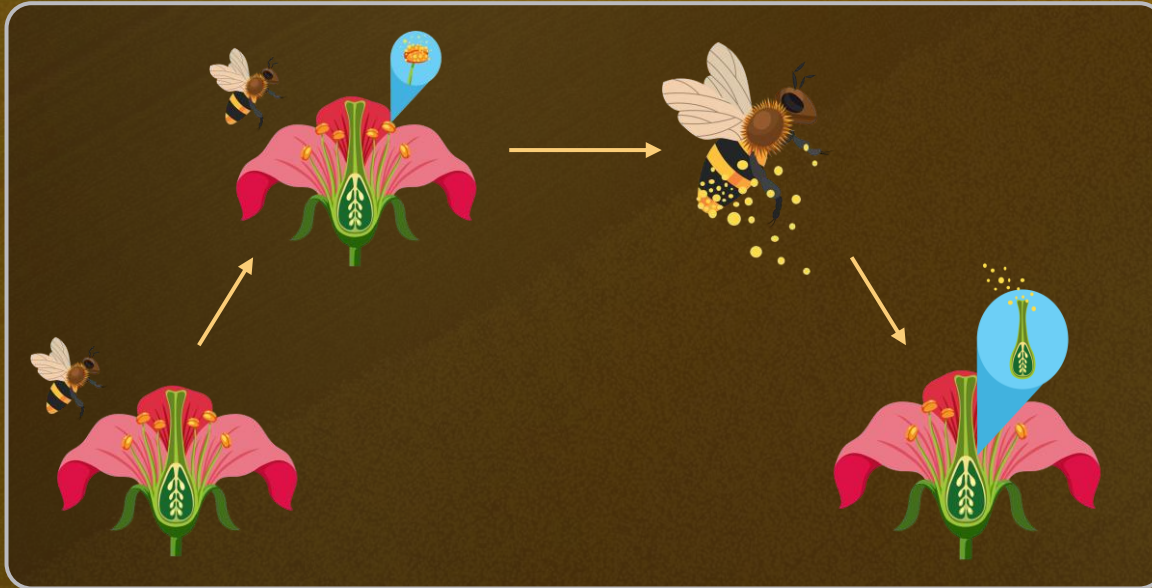
Catching and hiving of swarms



Apiculture

Advantages

- ❖ Bees pollinate many crop species (sunflower, *Brassica*, apple and pear)
- ❖ They increase pollination efficiency and hence enhance the yield of the crops



Fishery



Fishery



- ❖ Human used spears, fishing hooks, etc, to capture fishes
- ❖ As population grew, demand for fish and its products grew



Bone fishing hook

Fishery



- ❖ Later, mechanized version of fishing equipment was used for capturing fishes (in bulk)
- ❖ Led to the development of fishery industry



Mechanized fishing

Fishery



- ❖ Fishery is an industry devoted to the catching, processing or selling of fish, shellfish or other aquatic animals.
- ❖ Broadly 2 types of fishes that are consumed:

Marine fishes

Freshwater fishes

Fishery

Freshwater



Catla



Common Carp



Rohu

Fishery

Marine



Hilsa



Mackerel



Sardine



Pomfret

Fishery



Shellfish :- Aquatic invertebrates having a shell

- ❖ Seafood-associated shellfish are crustaceans, molluscs, etc.



Crab



Mussels

DID YOU KNOW?



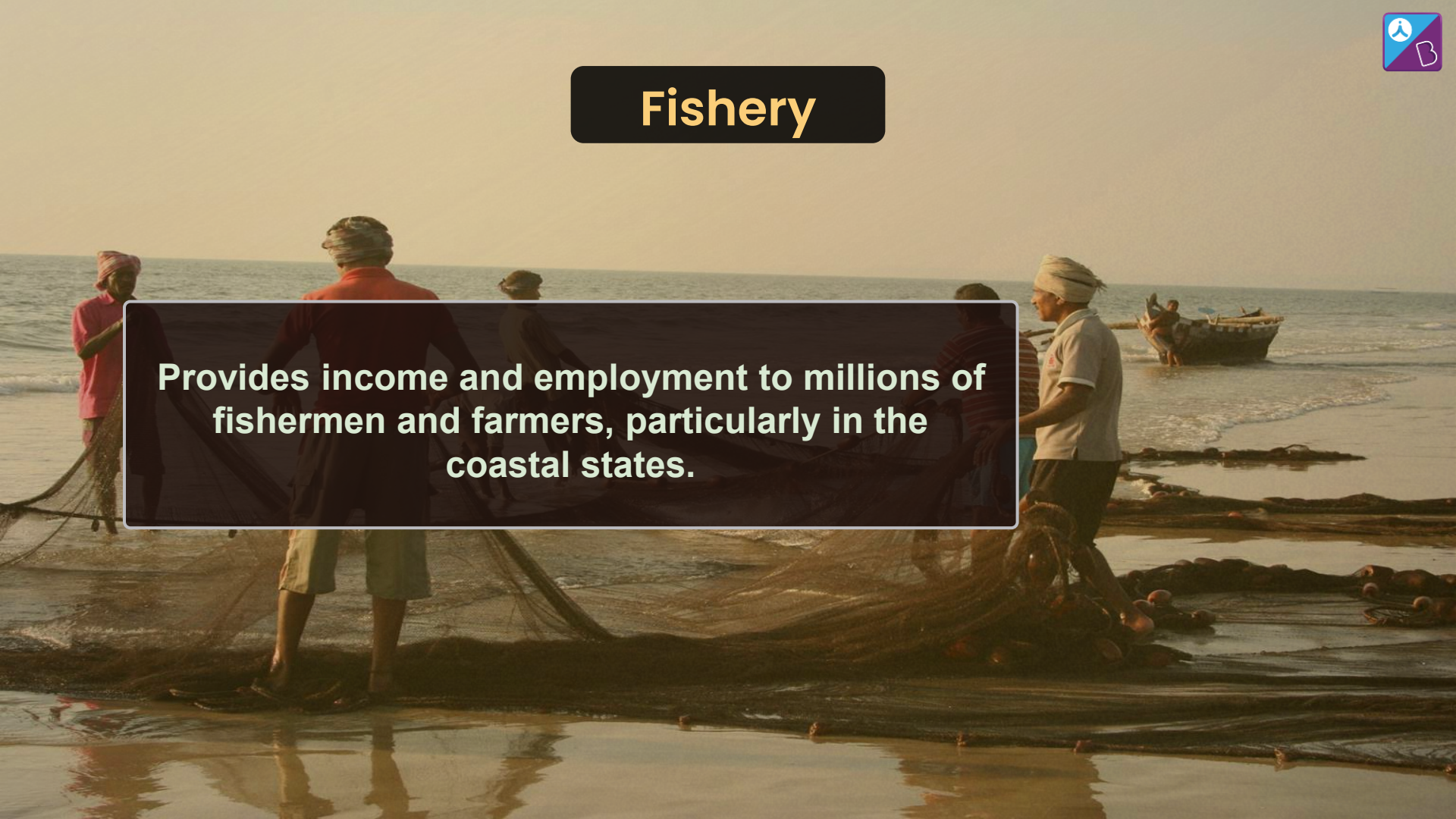
Shark liver oil and **cod liver oil** are natural sources of vitamin A, C and D.

Fishery

India



Fishery



Provides income and employment to millions of fishermen and farmers, particularly in the coastal states.

Fishery

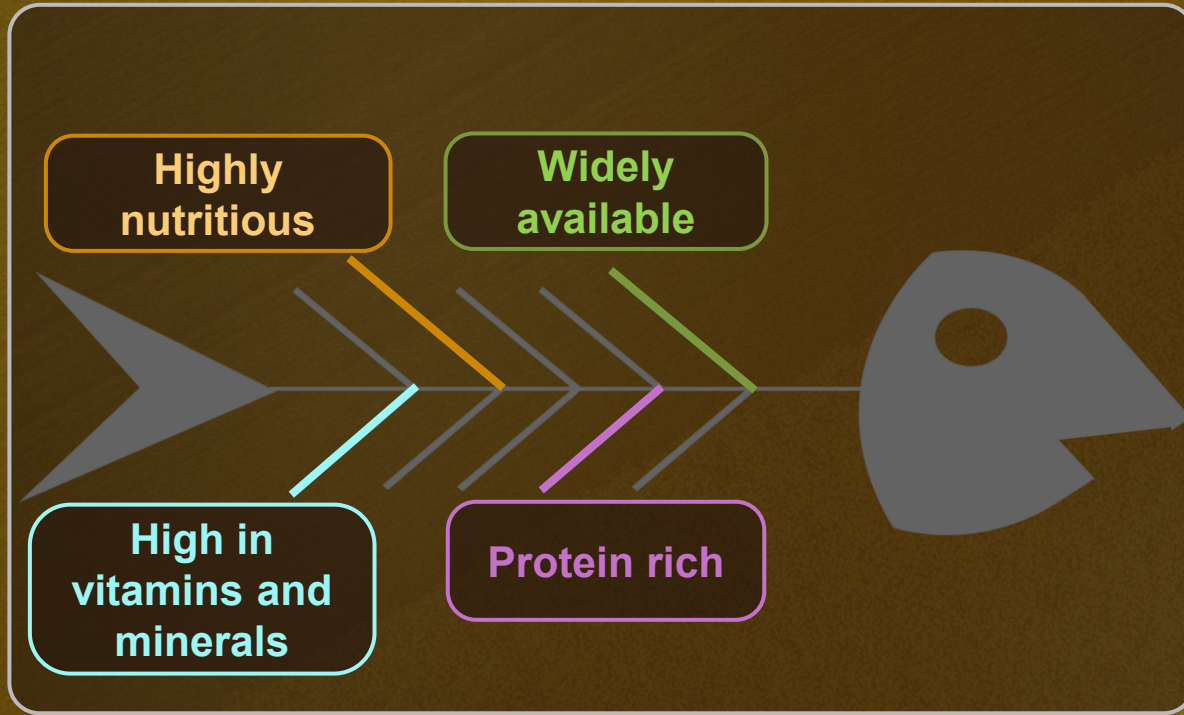
Aquaculture

Farming of flora and fauna in water bodies

Pisciculture

Farming of only fish in water bodies

Fishery



Caution: Some people might be allergic



Fishery

BLUE REVOLUTION

Increasing fisheries production and productivity from aquaculture and fisheries resources, both inland and marine.



Keep Learning!

