



# BIOLOGY

## BOOKS - PREMIERS PUBLISHERS

### TRENDS IN ECONOMIC ZOOLOGY

#### Textbook Questions Answers

1. Which one of the following is not related to vermiculture?

(a) Maintains soil fertility

(b) Breakdown of inorganic matter

(c) Gives porosity, aeration and moisture holding capacity

(d) Degradation of non biodegradable solid waste

A. (i) and (ii) is correct

B. (iii) and (iv) is correct

C. (ii) and (iv) is not correct

D. (i) and (iii) is not correct

**Answer: C**



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2. Which one of the following is not endemic species of earthworm?

(a) Perionyx

(a) Lampito

(c ) Eudrillus

(c ) Octochaetona

A. Perionyx

B. Lampito

C. Eudrillus

D. Octochaetona

**Answer: C**



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3. Silk is obtained from \_\_\_\_\_.

- A. *Laccifer lacca*
- B. *Nosema bombycis*
- C. *Attacus ricini*
- D. *Attacus mylitta*

**Answer: C**



4. Assertion: Nuptial flight is a unique flight taken by the queen bee followed by several drones.

Reason: The queen bee produces a chemical substance called pheromone. The drones in that area are attracted to the pheromone and then mating takes place.

A. Assertion and reason is correct but not related

B. Assertion and reason is incorrect but related

C. Assertion and reason is is correct but related

D. Assertion and reason is incorrect but not related

**Answer: C**



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5. Rearing of honey bee is called

A. sericulture

B. lac culture

C. vermiculture

D. apiculture

**Answer: D**



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6. Which of the statements regarding lac insect is True?

Microscopic resinous crawling scale insect.

Inserts its proboscis into plant tissue, suck juices and grows

Secretes lac from the hind end of the body.

The male lac insect is responsible for large scale production of lac

A. A microscopic, resinous crawling scale insect



- B. Inserts its proboscis into plant tissue suck  
juices and grows
- C. Secretes lac from the hind end of body
- D. The male lac insect is responsible for  
large scale production of lac

**Answer: C**



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7. Aquaponics is a technique which is

A. A combination of aquaculture and fish culture.

B. A combination of aquaculture and hydroponics

C. A combination of vermiculture and hydroponics

D. A combination of aquaculture and prawn culture.

**Answer: B**



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8. Prawn belongs to the class

A. crustacea

B. annelida

C. coelenterata

D. echinodermata

**Answer: A**



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9. Pearl oyster belongs to the Class

A. gastropoda

B. cephalopoda

C. scaphapoda

D. pelecypoda

**Answer: D**



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10. Inland fisheries are .....

A. deep sea fishing

B. capturing fishes from sea coast

C. raising and capturing fishes in fresh water

D. oil extraction from fish

**Answer: C**



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**11. Induced breeding technique is used in ....**

A. marine fishery

B. capture fishery

C. culture fishery

D. inland fishery

**Answer: C**



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**12.** Isinglass is used in

A. preparation

B. clearing of wines

C. distillation of wines

D. preservation of wines

**Answer: B**



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**13.** Animal husbandry is the science of rearing, feeding and caring, breeding and disease control of animals. It ensures supply of proper nutrition to our growing population through activities like increased production and

improvement of animal products like milk, eggs, meat, honey, etc.

a. Poultry production depends upon the photo period. Discuss



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**14.** Animal husbandry is the science of rearing, feeding and caring, breeding and disease control of animals. It ensures supply of proper nutrition to our growing population through activities like increased production and improvement of animal products like milk, eggs,



meat, honey, etc.

b. Polyculture of fishes is of great importance.



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**15. Assertion:** The best quality of pearl is known as lingha pearl and obtained from marine oysters.

**Reason:** Nacre is secreted continuously by the epithelial layer of the mantle and deposited around the foreign particle.

**A. Assertion is true, Reason is false**

B. Assertion and Reason are false

C. Assertion is false But Reason is true

D. Assertion and Reason are true .

**Answer: D**



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**16.** Choose the correctly matched pair.

- |                      |   |                     |
|----------------------|---|---------------------|
| 1. Egg layers        | — | Brahma              |
| 2. Broiler types     | — | Leghorn             |
| 3. Dual purpose      | — | White Plymouth rock |
| 4. Ornamental breeds | — | Silkie              |

A. Egg layers- Brahma

B. Broiler types - Leghorn

C. Dual purpose- White Plymouth rock

D. Ornamental breeds - Silkie

**Answer:**



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**17. Write the advantages of vermicomposting.**



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**18.** Name the three caste in a honey bee colony.



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**19.** Name the following.

i. The largest bee in the colony.



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**20.** Name the following.

ii. The kind of flight which the new virgin queen

takes along with the drones out of the hive.



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21. What are the main duties of a worker bee ?



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22. What happens to the drones after mating fight ?



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**23.** Give the economic importance of Silkworm.



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**24.** What are the nutritive values of fishes?



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**25.** Give the economic importance of prawn fishery.



**Watch Video Solution**

**26.** Give the economic importance of lac insect.



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**27.** List any three common uses of shellac.



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**28.** Name any two trees on which lac insect grows.



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**29.** What is seed lac?



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**30.** Define cross breeding.



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**31.** What are the advantages of artificial insemination ? D





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**32.** Discuss the various techniques adopted in cattle breeding.



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**33.** Mention the advantages of MOET.



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34. Write the peculiar characters of duck.



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**Other Important Questions Answers Choose The Correct Answer**

1. A branch of science that deals with economically useful animals is called

A. apiculture

B. horticulture

C. economic zoology

D. aquaculture

**Answer: C**



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**2. Primary goal of vermiculture.**

A. Vermiwash

B. Vermi compost

C. Voltinism

D. Manure production

**Answer: B**



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**3. Biological indicators of soil fertility**

A. Silkworm

B. Honeybee

C. Earthworm

D. Lac insect

**Answer: C**



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4. .... are the earthworms, which dwell on the surface and feed on organic matter.

- A. Humus formers
- B. Humus feeders
- C. Vermi composers
- D. Soil improvers

**Answer: A**



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5. *Lampito mauritii* are the .....species of earthworms

A. endemic species

B. extinct species

C. exotic species

D. notho species

**Answer: A**



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6. .... is a liquid collected after the passage of water through a column of vermibed.

- A. Hydroponics
- B. Vermiwash
- C. Vermicompost
- D. Mucilage

**Answer: B**



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7. Vermiwash is obtained from ..... formed by earthworms.

A. compost unit

B. bunds

C. drilospheres

D. soil



**Answer: C**



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**8.** Which of the following statement is not correct

The main components of sericulture

A. Cultivation of food plants

B. The mass emergence of larvae from the egg in search of host plant is called swarming

C. Rearing of worms

D. Reeling and spinning of silk

**Answer: B**



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9. The 'Muga Silk' is produced from the .....  
species of silkmoth

A. *Bombyx mori*

B. *Antheraea mylitta*

C. *Antheraea assamensis*

D. *Attacus ricini*

**Answer: C**



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**10.** The preferred food leaves of the silkworm species *Attacus ricini* is:

A. mulberry

B. champa

C. castor

D. arjun

**Answer: C**



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**11. Which of the following state in which Mulberry silk is produced?**

A. Tamilnadu

B. Nagaland

C. West Bengal

D. Assam

**Answer: A**



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**12.** A single female moth of silkworm lays .....  
number of eggs depending upon the climatic  
conditions

A. 40-50

B. 400-500

C. 1 – 24

D. 2 – 3

**Answer: B**



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**13.** The caterpillars of silkworm developed ...  
Types of mouth parts adapted to feed easily on  
the mulberry leaves.

A. maxillary

B. mandibulate

C. cutter

D. sickle

**Answer: B**



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**14.** Name the species that produces large amount of silk is:

A. *Attacus ricini*

B. *Bombyx mori*

C. *Antheraea mulitta*

D. *Antheraed assumensis*

**Answer: B**



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**15.** The cultivation of mulberry is called as .....

A. sericulture



B. apiculture

C. horticulture

D. moriculture

**Answer: D**



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**16.** The method of obtaining silk thread from the cocoon is known as

A. pre-cocoon processing

B. post-cocoon processing

C. reeling

D. cooking

**Answer: B**



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17. The process of killing the cocoons is called

.....

A. reeling

B. stifling

C. cooking

D. rearing

**Answer: B**



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**18.** The process of removing the threads from the killed cocoon is called\_\_\_\_\_.

A. reeling

B. stifling

C. cooking

D. bundling

**Answer: A**



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**19.** Pebrine is a dangerous disease to silkworms caused by .....

A. Nosema bombycis

B. Streptococcus

C. Baculovirus

D. Staphylococcus

**Answer: A**



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**20. Worker bee lives in a chamber called:**

A. brood cell

B. drone cell

C. worker cell

D. sub cells

**Answer: C**



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**21.** The nectar collected from the flowers and is stored in the stomach region of the worker bee, is transformed into honey by the enzyme called:

A. enteokinase

B. peptidase

C. invertase

D. transferase

**Answer: C**



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**22.** The process of leaving the colony by the queen with a large group of worker bees to form a new colony is called .....

A. nuptial flight

B. migration

C. swarming

D. flocking

**Answer: C**



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**23.** ..... is the most important part of the Langstroth bee hive.



A. Inner cover

B. Top cover

C. Bottom board

D. Brood chamber

**Answer: D**



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**24. ....** Is a device made of fine nettings to protect the bee keeper form bee sting.

A. Bee gloves

B. Bee veil

C. Bee brush

D. Comb foundation

**Answer: B**



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**25.** Which of the following statement is incorrect regarding honey ?

A. It is an aromatic sweet material

B. It is used as an antiseptic and as a  
sedative

C. The resinous chemical substance present  
is called propolis

D. It is generally used in Ayurvedic and unani  
systems of medicines

**Answer: C**



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26. .... Is secreted by the abdomen of the worker bees at the age of two weeks

A. Beewax

B. Honey

C. Lac

D. Pollen

**Answer: A**



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27. Lac insect *Tachardia lacca* is previously known as

A. *Bombyx mori*

B. *Apis florea*

C. *Laccifer Lacca*

D. *Penacus Indicus*

**Answer: C**



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**28.** Which one of the following is not related to

Lac insect:

A. Lac insects sucks plant juices, grows and

secretes Lac

B. The quality of lac depends on the quality

of the host plant

C. After copulation, the male insect dies

D. It is a functiona female which feeds on

royal jelly.

**Answer: D**



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**29.** The seed lac is sundried and then melted to produce .....

A. Ari lac

B. Stick lac

C. Shellac

D. Cerelac

**Answer: C**



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**30.** Assertion: Aquaponics is a technique which is a combination of aquaculture and hydroponics.

Reason: In this system plant waste and decays are utilized by fishes as food

A. Assertion and reason is correct but not related



B. Assertion and reason is incorrect but related

C. Assertion and reason is correct but related

D. Assertion and reason is incorrect but not related

**Answer: C**



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**31.** Aqua vertica is otherwise known as

- A. Vertical aquaponics
- B. Plants are kept in PVC pipe holes
- C. Growing plants in clay pellets
- D. Raft based method

**Answer: A**



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**32.** Choose the correct statement from the below

A. Use of pesticides is avoided in aquaponics

B. Growth of weeds is more in aquaponics

C. Estuarine fishes are more common in Tamil Nadu and Pondichery

D. Exotic fishes are native breeds

**Answer: A**



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**33.** Cultivable fishes like tilapia, trout, koi, gold fish, bass, etc are cultured in aquaponics- say this statement is true or false



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**34.** The spawn collecting net is called

A. Benchijal

B. Hapas

C. Fishnet

D. Dipnets

**Answer: A**



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**35. Management of fish farm includes**

A. Fish seed-nursery pond-stocking pond -  
harvesting

B. Breeding pond-fish seed-hatching pit-nursery pond-rearing pond- stocking pond- harvesting

C. Breeding pond - nursery pond - rearing pond - stocking pond-harvesting

D. Fish seed- hatching pit- rearing pond - stock pond - harvesting

**Answer: B**



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**36.** The newly hatched fries of fishes are transported from the hatching happa to nursery ponds where they grow into

A. Hatchling

B. Larva

C. Fingerlings

D. Tadpoles

**Answer: C**



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**37.** Say which statement of the following is not correct

A. Selected fishes of different species are stocked together in a pond is called composite fish farming

B. Catla, Rohita, are the commonly used fishes for composite fish farming

C. The fishes imported into the country are called exotic fishes



D. Parasitic infestations and microbial infections cannot be found and treated among fishes

**Answer: D**



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**38. .... Is the fish product rich in Vitamin A and D**

A. Fish meal

B. Fish oil

C. Ising glass

D. Dried fish

**Answer: B**



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**39.** .....are the aquatic crustacean their flesh contains more glycogen protein with low fat content

A. Prawns

B. Oysters

C. Crayfish

D. Crabs

**Answer: A**



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**40. ....is commonly seen in rivers and low saline estuaries**

A. *Metapenaeus dobsoni*

B. *Panaeus indicus*

C. *Panaeus monodon*

D. *Macrobrachum rosenbergii*

**Answer: D**



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**41.** High quality of pearls are obtained from pearl oysters of

A. *Lamellidens*

B. Olympia oyster

C. Pinctada

D. Sydney rock oyster

**Answer: C**



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**42. Smallest breed of cow is**

A. Brown Swiss

B. Jersey

C. Sindhi

D. Vechur

**Answer: D**



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**43.** The most popular commercial chicken breed in India is ..... which thrive well in dry areas

A. Aseel

B. White Plymouth rock

C. Brahma

D. Leghorn

**Answer: D**



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**44.** Fast growing chicken breed is

A. Chittagong

B. White Plymouth rock

C. Wyandotte

D. Karaknath

**Answer: B**



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**45. ....** Is a type of chicken breed known for its pugnacity

A. Assel

B. Brahma

C. Busra



D. Leghorn

**Answer: A**



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**46.** Which is the ornamental breed of chicken of the following ?

A. Chittagong

B. Leghorn

C. Aseel

D. Silkie

**Answer: D**



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**47. Which of the following statement is true ?**

A. The most common and commercially farmed birds are chicken, ducks, goose, partridges, Guniea fowl, Emu, etc

- B. Broiler type chicken are well known for its slow growth and hard quality of meat
- C. Aseel hens are good egg layers, but are not good in incubation of eggs
- D. Silkies are well recognized for its majestic look and fighting qualities.

**Answer: A**



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# Other Important Questions Answers Answer The Following Questions

1. What is Economic Zoology?



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2. Classify animals based on their economic importance



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3. Write the relationship between the soil and earthworm.



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4. What is vermicompost?



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5. Why earthworms has got the names of 'farmer's friends' and biological indicators of

soil fertility ?



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6. What is Vermicast?



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7. How are earthworms divided?



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**8.** Differentiate endemic and exotic species of earthworms with example



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**9.** How can we prepare vermicompost bed for culturing earthworms as well as preparing vermicompost and vermivash ?



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**10.** What is vermiwash? From where can we obtained it. What is the use of it?



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**11.** What are the enemies of earthworm?



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**12.** Define -Sericulture?



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**13.** Write the three main components of sericulture



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**14.** Write down the various steps of development involved in the life cycle of Bombyx Mori.



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**15.** Classify the races of *Bombyx mori* on the basis of its moulting



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**16.** Write few species of silk moth and the types of silk obtained from them.



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17. What is Voltinism? Classify the races of *Bombyx mori* or mulberry worm according to this.



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18. What is moriculture?



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19. What are the improved mulberry varieties?





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**20.** How can we prepare a rearing house for silkworm, and how can it be reared ?



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**21.** What are various appliances used for rearing silkworms ?



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**22.** What are the stages involved in rearing process of silkworm?



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**23.** What is post cocoon processing ? What are the steps involved?



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**24.** Define stifling and Reeling





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**25.** How the reeling process of silk thread is done ?



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**26.** Tabulate some diseases which affects silk worms. Write their causative organisms also.



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**27.** What is apiculture?



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**28.** Write the names of well recognized types of bee in the world.



**Watch Video Solution**

**29.** What is nuptial flight?



**Watch Video Solution**

**30.** Write an account on the worker bee ?



**Watch Video Solution**

**31.** Why drones are called 'king of the colony' ?



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**32.** Explain the structure of a bee hive?



**Watch Video Solution**



**33.** Write the primary equipments of Langstroth bee hive.



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**34.** Write few lines about the following (i) Queen Excluder, (ii) Bee Gloves, (iii) Bee Veil, (iv) Smoker, (v) Bee brush, (vi) Honey extractor.



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**35.** Give the economic importance of the chief products of bee keeping.



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**36.** What is meant by lac culture?



**Watch Video Solution**

**37.** What is swarming in lac culture?



**Watch Video Solution**

**38.** Write an account on the life cycle of 'Lac' insect with simple sketch.



**View Text Solution**

**39.** What is aquaponics?



**Watch Video Solution**

**40.** What is the use of Aquaponics ?



**Watch Video Solution**

**41.** What are the primary methods of aquaponic gardening used now a days?



**Watch Video Solution**

**42.** What is deep water culture ?



**Watch Video Solution**

**43.** What is media based method ?



**Watch Video Solution**

**44.** What is nutrient film technique ?



**Watch Video Solution**

**45.** What is Aqua Vetica ?



**Watch Video Solution**

**46.** Explain the advantages of Aquaponics gardening.



**Watch Video Solution**

**47.** What is aquaculture?



**Watch Video Solution**

**48.** Mention the classification of aquaculture ?



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**49.** What is freshwater aquaculture ?



**Watch Video Solution**

**50.** What is Brackish water aquaculture ? What are the fishes cultured here ?



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**51.** What is Mariculture?



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52. What is metahaline culture?



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53. Write a note on the characteristics of cultivable fishes.



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54. What are the types of cultivable fishes?



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**55.** Major carps are best suited fishes for culture in India. Give reasons.



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**56.** What are the external factors affecting fish culture?



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**57.** What are the two types of breeding among fishes ?



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**58.** Write about the induced breeding method in fishes ?



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**59.** What is composite fish farming or polyculture ?



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**60.** What are the advantages of polyculture?



**Watch Video Solution**

**61.** What are the different fishing methods carried out to harvest fishes ?





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**62.** What are exotic fishes?



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**63.** Write about some of the fish by products in brief



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**64.** What are the different types of prawn fishery?



**Watch Video Solution**

**65.** Mention the names of some species of prawn?



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**66.** How the freshwater prawn "Macrobrachium rosenbergii" is cultured ?



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**67.** How pearl formation occurs?



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**68.** How pearls are cultured artificially in pearl industry?





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**69.** What is the composition of pearl?



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**70.** What is meant by animal husbandary?



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**71.** What are the parameters to be taken into account to maintain dairy and poultry farms ?



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**72.** List the objective of animals breeding?



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**73.** What is Out crossing?



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**74.** What is Artificial insemination?







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**75.** What is thawings?



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**76.** What is MOET? Write when this method is followed?



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**77.** How are cattles classified?



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**78.** Name the main diseases of dairy cattle.



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**79.** What is Poultry Farming?



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**80.** Some of the chicken breeds are of egg layers and are mainly farmed for the production of eggs. Name the egg layers and write their characters.



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**81.** Write the characters of white Plymouth rock.



**Watch Video Solution**

**82.** Write the special characteristic features of Aseel?



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**83.** Given an example for ornamental breed of chicken and write its features.



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**84.** Name the different methods of poultry farming.



**Watch Video Solution**

**85.** What are the stages involved in rearing of chicken?



**Watch Video Solution**

**86.** What are the main products and byproducts of poultry farming?



**Watch Video Solution**

**87.** Name the diseases that affect poultry animals.



**Watch Video Solution**

**88.** Write the benefits of keeping poultry.





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**89.** What are the native and exotic duck breeds.



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**90.** Ramu has reared about 60 to 70 ducks of his own. In what way he is benefited with the duck farming.



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**91.** Why should we breed animals?



**Watch Video Solution**

**92.** How can you identify the healthy cattle?



**Watch Video Solution**

**93.** Define Hapa?



**Watch Video Solution**



**94.** What is drilosphere?



**Watch Video Solution**

**95.** What is meant by biological indicators ?

Give example .



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**Solution To Textual Questions**

1. Why are fish so efficient at converting feed to flesh?



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