



## **BIOLOGY**

# **BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)**

## **TRENDS IN ECONOMIC ZOOLOGY**

### **Textbook Evaluation Questions Solved**

**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. Match the following

- (1) *Bombyx mori* - a) Champa - I) Muga
- (2) *Antheraea assamensis* - b) Mulberry - II) Eri
- (3) *Antheraea mylitta* - c) Arjun - III) Tassar
- (4) *Attacus ricini* - d) Castor - IV) Mulberry

**A. 1-b-IV**

**B. 2-a-I**

C. 3 - C - III

D. 4 - d - II

**Answer: C**



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**4. Silk is obtained from\_\_\_\_\_.**

A. *Laccifer lacca*

B. *Nosema bombycis*

C. *Attacus ricini*

D. Attacus mylitta

**Answer: C**



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

**Reasons :** 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 correct but related

D. Assertion and reason is incorrect but not related

**Answer: C**



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**6. Rearing of honey bee is called**

A. Sericulture

B. Lac culture

C. Vermiculture

D. Apiculture

**Answer: D**





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7. Which of the statement regarding Lac insect is TRUE?

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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**8. 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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9. Prawn belongs to the class

A. Crustacea

B. Annelida

C. Coelenterata

D. Echinodermata

**Answer: A**



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**10.** Pearl oyster belongs to the Class

A. Gastropoda

B. Cephalopoda

C. Scaphapoda

D. Pelecypoda

**Answer: D**



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

- A. Marine fishery
- B. Capture fishery
- C. Culture fishery
- D. Inland fishery

**Answer: B**



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13. Isinglass is used in

A. Preparation

B. Clearing of wines

C. Distillation of wines

D. Preservation of wines

**Answer: B**



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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.

a. Poultry production depends upon the photo period. Discuss



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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: C**



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**16.** Choose the correctly unmatched pair.

A. Egg layers - Brahma

B. Broiler types - Leghorn

C. Dual purpose - White Plymouth rock

D. Ornamental breeds - Silkie

**Answer: D**



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



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



**Watch Video Solution**

**19.** Name the following.

i. The largest bee in the colony.



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**20.** What are the main duties of a worker bee ?



**Watch Video Solution**

**21.** What happens to the drones after mating fight ?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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





**Watch Video Solution**

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



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



**Watch Video Solution**

**28.** What is seed lac?



**Watch Video Solution**

**29.** Define cross breeding.



**Watch Video Solution**

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



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



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**32.** Mention the advantages of MOET.



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**33.** Write the peculiar characters of duck.



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## In Text Questions Solved

1. My vermicompost manufacturing unit is plagued by a number of red ants. Are there any bio friendly measures to tackle the menace as I do not want to use any chemicals?



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2. India has the distinction of producing all the four types of silk i.e. (a) Mulberry silk (91.7%), (b) Tasar silk (1.4%), (c) Eri silk (6.4%), and (d) Muga silk (0.5%) which are produced by different species of silkworms. Name the species that produces large amount and least amount of silk in India.



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**3. a.** Growing fish or other aquatic animals and plants together in an integrated system. The fish wastes provides nutrients for the plants and the plants filter the water. Additionally bacteria break down by-products such as ammonia. **b.** Growing plants in a nutrient solution instead of soil. Fish kept in the water provide the required nutrients. Write the appropriate scientific terms for above (a) and (b) and differentiate between them.



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



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## **Text Book Activities Solved**

1. Students can construct their own aquaponic system with materials available in their laboratory. An old aquarium or any water tight container can be converted into simple

aquaponics system      Materials      Required:

Aquarium tank/ any water tight container, a floating Styrofoam platform (thermocol), growing medium-coconut fibre. An air pump and air stone, nutrient solution (vermiwash or can buy commercially available nutrient solution), plastic cups and seeds.

Cut a floating thermocol platform to fit the tank. Make holes on the platform to insert plastic cups with the growing medium. Fill the aquarium tank with water and nutrients. An air pump supplies air to the air stone that bubbles the nutrient solution and supplies

oxygen to the roots. Place the floating platform on top of the nutrient solution and place the plastic cups with plants into the holes in the platform. Now your simple hydroponics system is ready to build a aquaponic system fishes can be introduced into the tank instead of nutrient solution.



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**Entrance Exam Questions Solved**

1. Doctors use stethoscope to hear the sound, produced during each cardiac cycle. The second sound is heard when:

A. AV node receives signal from SA node

B. AV valves

C. Ventricular wall vibrate due to gushing  
of blood from atria

D. Ventricular wall vibrate due to gushing  
of blood from atria



**Answer: D**



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## **Additional Questions Solved Choose The Best Answer**

**1. During the process of vermiculture which of the following does not happen?**

A. decomposition of organic food waste

B. supplying nutrients to the soil

C. use of earthworms in the process

D. synthesis of organic substances

**Answer: D**



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2. The breakdown of organic matter by the activity of the earthworms and its elimination from its body is called .....

A. vermitech

B. vermicast

C. vermicompost

D. vermiculture

**Answer: B**



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**3.** The technology of composting and bioremediation of soils and other activities by application of earthworm is called .....

A. vermitech

B. vermicast

C. vermicompost

D. vermiculture

**Answer: A**



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**4. Which is not related to humus formers?**

A. They are darker in colour

B. They feed on organic matter

C. They make the soil porous

D. They are surface dwellers

**Answer: C**



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5. Which of the following is the exotic species used for vermicomposting?

A. *Eudrilus eugeniae*

B. *Lampito mauritii*

C. *Periorynx excavatus*

D. *Octochaetona serrata*

**Answer: A**



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**6. *Antheraea mylitta* feeds on ....**

A. Mulberry

B. Arjun

C. Castor

D. Champa

**Answer: B**



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7. Attacus ricini produces ..... silk.

A. Muga

B. Tassar

C. Mulberry

D. Eri

**Answer: D**



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**8. The process of killing the cocoons is called ...**

A. reeling

B. stifling

C. rearing

D. culturing



**Answer: B**



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

- A. Streptococcus
- B. Nosema bombycis
- C. BmNPV
- D. Beauveria bassiana

**Answer: B**



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**10. Muscardine is a disease of silkworms caused by a .....**

A. Bacterium

B. Virus

C. Protozoan

D. Fungus

**Answer: D**



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**11.** Among the honey bees, workers are .....

A. fertile females

B. fertile males

C. sterile females

D. sterile males

**Answer: C**



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12. Honey is used as .....

(1) an antiseptic (2) a laxative (3) a sedative (4)

a substitute for sugar

A. 1, 2, 3 only

B. 2, 3, 4 only

C. 2, 4 only

D. 1, 2, 3, & 4

**Answer: D**



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**13.** Lac is secreted by lac insect for .....

- A. growth
- B. development
- C. protection
- D. moulting

**Answer: C**



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**14.** Growing plants in non-soil media and nutrient-laden water is called .....

A. Aquaponics

B. Hydroponics

C. Aquaculture

D. Apiculture

**Answer: B**



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**15.** Raft based method of aquaponic gardening is known as .....

- A. Deep water culture
- B. Aqua vertica
- C. Media based method
- D. Nutrient film technique

**Answer: A**



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**16.** Culturing of animals in the water having salinity range 0.5-30 ppt are called as .....

- A. Freshwater aquaculture
- B. Marine water aquaculture
- C. Brackish water aquaculture
- D. Metahaline culture

**Answer: C**



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17. Culturing of animals in the water salinity ranges from 30-35‰ is called .....

A. Brackish water aquaculture

B. Mariculture

C. Metahalophilic culture

D. Fresh water aquaculture

**Answer: B**



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18. Labeo and catla belong to..... fishes.

A. indigenous fresh water

B. salt water

C. exotic

D. brackish water

**Answer: A**



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**19.** In composite fish farming ..... are stocked together in proper proportion in a pond.

- A. different species of fishes
- B. fishes of the same species
- C. all animals
- D. all plants and animals

**Answer: A**



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**20.** Fish liver oil is rich in vitamins.....

A. A & B

B. A & C

C. A&D

D. A&E

**Answer: C**



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21. The best quality of pearl is obtained from ..... oysters.

A. land

B. brackish water

C. fresh water

D. marine

**Answer: D**



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22. Breeding between animals of the same breed for 4-6 generation is called ....

A. outbreeding

B. inbreeding

C. cross breeding

D. outcrossing

**Answer: B**



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### 23. Breeding of unrelated animals

- A. inbreeding
- B. cross breeding
- C. outbreeding
- D. outcrossing

**Answer: C**



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24. Breeding between a superior male of one breed with a superior female of another breed is called .....

- A. inbreeding
- B. outbreeding
- C. outcrossing
- D. cross breeding

**Answer: D**



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25. Jersey is a \_\_\_\_\_ breed.

A. Milch

B. Drought purpose

C. Dual purpose

D. Common

**Answer: A**



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**26.** Why are leghorns preferred in commercial farms?

- A. they give good quality flesh
- B. they mature late
- C. they mature early and begin to lay eggs  
at the age of 5 months
- D. they look beautiful

**Answer: C**



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**27. What are Dual purpose chicken breeds?**

A. Aseel

B. Silkie

C. Brahma

D. White plymouth rock

**Answer: C**



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**28.** The incubation period of chick embryo development is ..... days.

A. 10 – 12

B. 21-22

C. 25-30

D. 15-17

**Answer: B**



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29. Ranikhet, coccidiosis and Fowl pox are

..... .

- A. chicken breeds
- B. types of poultry farming
- C. poultry diseases
- D. types of breeding methods

**Answer: C**



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**30.** Which of the following is the native breed of duck?

A. Pekin

B. Campbell

C. Muscori

D. Syhlet meta

**Answer: B**



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## Additional Questions Solved Fill In The Blanks

1. \_\_\_ is called as farmer's best friend.



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2. The breakdown of organic matter by the activity of the earthworms and its elimination from its body is called .....



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3. Humus feeders are ..... worms.



**Watch Video Solution**

4. .... are the earthworms used for vermicomposting.



**Watch Video Solution**

5. The exotic species of earthworms are.....



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



**Watch Video Solution**

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



**Watch Video Solution**

**8.** Production of silk from the silkworm by rearing practices on a commercial scale is called .....



**Watch Video Solution**

**9.** The eggs of silkworms after ten days of incubation hatch into larva called as.....



**Watch Video Solution**

10. The cultivation of mulberry is called as .....



**Watch Video Solution**

11. The process of killing the cocoons is called  
.....



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



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13. *Nosema bombycis* causes ..... to silkworms.



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14. .... is the viral disease of *Bombyx mori* caused by BmNPV.



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15. White muscardine is caused by a fungus.....



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16. Apiculture is the care and management of ..... on a commercial scale.



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17. .... is the Indian honey bee.





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18. *Apis floera* is a rock bee



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19. .... is the little bee.



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20. *Apis mellifera* is the ..... bee.





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21. .... is the functional female bee present in each bee hive.



**Watch Video Solution**

22. The Queen bee produces ..... to attract drones.



**Watch Video Solution**

**23.** Among the honey bees, ..... are sterile females.



**Watch Video Solution**

**24.** ..... is the functional male member of the honey bee colony.



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**25.** Assertion : : Nuptial flight is a unique flight taken the queen bee followed by several



drones.

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



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



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**27.** Honey is used as an antiseptic, laxative and as a .....



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**28.** The resinous chemical substance present in the bee wax is called .....



**Watch Video Solution**

**29.** Lac is secreted by lac insect for .....



**Watch Video Solution**

**30.** Karanagalli is the host plant for .....



**Watch Video Solution**

**31.** The mass emergence of larvae from the eggs of lac in search of a host plant is called .....

.....



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**32.** A condition in which a secondary parasite develops within a previously existing parasite is called.....



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**33.** The collection of lac from the host plant is known as .....



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**34.** Lac cut from the host plant is called .....



**Watch Video Solution**

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



**Watch Video Solution**

**36.** Growing fish is known as.....





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**37.** Chanos chanos are cultured in .....



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**38.** Culturing of animals in the salinity ranges from 36-40% is called ..... culture



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**39.** Which is known as Brine shrimp?



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**40.** Labeo and catla belong to..... fishes.



**Watch Video Solution**

**41.** Fish oil is derived from the ..... of fish.



**Watch Video Solution**

**42.** ..... is prepared from fish waste after extracting oil from the fish.



**Watch Video Solution**

**43.** ..... is a high grade collagen produced from dried air bladder of catfish.



**Watch Video Solution**



**44.** Prawn is rich in ..... protein with low fat content.



**Watch Video Solution**

**45.** Most of the marine prawns caught along the Indian coast belongs to the family.....



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**46.** *Metapenaeus dobsoni* is a species of .....



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**47.** Fresh water bivalve ..... is used in artificial pearl culture.



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**48.** The piece of tissue which is inserted inside the mantle of the oyster is called as ..... tissue.



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**49.** 90% of pearl is .....



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**50.** The best quality of pearl is obtained from  
..... oysters.



**Watch Video Solution**

51. The practice of breeding and raising livestock is called as .....



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52. .... increases homozygosity and exposes harmful recessive genes.



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**53.** ..... helps to produce new and favourable traits, new breeds and hybrids with superior qualities.



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**54.** ..... is a technique in which the semen collected from the male is injected to the reproductive tract of the selected female.



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55. .... is the production and marketing of milk and its products.



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56. Sindhi, Gir, Jersey are ..... breeds.



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57. .... is the rearing and propagation of avian species.





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58. .... is the type of chicken breeds well known for fast growth and soft quality meat.



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59. Caring and management of young chicks for 4-6 weeks immediately after hatching is called.....



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**60.** Ranikhet is a ..... disease.



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**61.** Domesticated ducks have been derived from the wild duck named .....



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**62.** Droppings of poultry can be used as ..... in fields.





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**63.** The droppings of poultry are rich in nitrogen, potash and ....



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**64.** The eggs and poultry meat are the richest sources of ..... and vitamins.



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## Additional Questions Solved Answer The Following Questions

1. What is Economic Zoology?



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2. How are animals classified on the basis of economic importance?



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**3. Define Vermiculture.**



**Watch Video Solution**

**4. What is Vermitech?**



**Watch Video Solution**

**5. Why earthworm is called as farmer's friend?**



**Watch Video Solution**

6. What is Vermicast?



**Watch Video Solution**

7. What are the different groups of earthworms?



**Watch Video Solution**

8. What are endemic species of earthworm?



**Watch Video Solution**

**9. What is vermicompost?**



**Watch Video Solution**

**10. Write a note on Vermiwash.**



**Watch Video Solution**

**11. What are the pests of earthworms?**



**Watch Video Solution**

**12.** What are the internal parasites of earthworms?



**Watch Video Solution**

**13.** Enumerate the advantages of vermicompost over chemical fertiliser.



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**14.** What is meant by cooking in sericulture?



**Watch Video Solution**

**15.** What are the components of the sericulture industry?



**Watch Video Solution**

**16.** What are the different types of silk worms?



**Watch Video Solution**

**17.** What are the various races of *Bombyx mori*.



**Watch Video Solution**

**18.** What is moriculture?



**Watch Video Solution**

**19.** What are the improved mulberry varieties?



**Watch Video Solution**



20. What is the favourable season for cultivating mulberry plants?



**Watch Video Solution**

21. What is stifling?



**Watch Video Solution**

22. Define reeling.



**Watch Video Solution**

**23.** What is meant by cooking in sericulture?



**Watch Video Solution**

**24.** What are the uses of silk?



**Watch Video Solution**

**25.** Write a note on the diseases and pests of silkworms? Diseases and Pests of Silkworm



**Watch Video Solution**

**26.** What is apiculture?



**Watch Video Solution**

**27.** What are the types of bees?



**Watch Video Solution**

**28.** Comment on the social organization of honey bees.



**Watch Video Solution**

**29.** Write a note on Queen, Worker and Drones.



**Watch Video Solution**

**30.** What is nuptial flight?



**Watch Video Solution**

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



**Watch Video Solution**

**32.** Explain the parts of the Langstroth bee hive.



**Watch Video Solution**

**33. What is comb foundation?**



**Watch Video Solution**

**34. What is the use of Bee gloves?**



**Watch Video Solution**

**35. What is Bee veil?**



**Watch Video Solution**

**36.** What is the use of Smoker?



**Watch Video Solution**

**37.** What is hive tool?



**Watch Video Solution**

**38.** What is the use of:

(a) Uncapping knife (b) Bee brush

(c) Queen introducing cage (d) Feeders

(e) Honey Extractor (F) Hive Entrance Guard



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**39.** What are the products of bee keeping?



**Watch Video Solution**

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



**Watch Video Solution**



**41.** Name the insect that produces Lac.



**Watch Video Solution**

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



**Watch Video Solution**

**43.** What is hyper-parasitism?



**Watch Video Solution**

**44.** What is harvesting? Write on the types of lac?



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**45.** What is aquaponics?



**Watch Video Solution**

**46.** What are the methods of aquaponic gardening?



**Watch Video Solution**

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



**Watch Video Solution**

**48.** What are the fauna and flora cultured and cultivated in aquaponics?



**Watch Video Solution**

**49.** What is aquaculture?



**Watch Video Solution**

**50.** What are the three types of aquaculture on the basis of the source?



**Watch Video Solution**

**51.** Define pisciculture.



**Watch Video Solution**

**52.** What should be the pH and salinity of freshwater used for aquaculture?



**Watch Video Solution**

**53.** Write a short note on Brackish water fishes.



**Watch Video Solution**

**54.** What are the varieties of marine fisheries.





**Watch Video Solution**

**55. What is Mariculture?**



**Watch Video Solution**

**56. What is metahaline culture?**



**Watch Video Solution**

**57. What is Artemia?**





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**58.** Write a note on the characteristics of cultivable fishes.



[Watch Video Solution](#)

**59.** What are the types of cultivable fishes?



[Watch Video Solution](#)

**60.** What are the reasons for culturing carps in India?



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



**Watch Video Solution**



**62.** turbidity of water, pH hardness, salinity and dissolved  $O_2$ . Light and temperature also play an important role in fish breeding.



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**63.** What are the advantages of composite fish farming?



**Watch Video Solution**

**64.** What are exotic fishes?



**Watch Video Solution**

**65.** What are the types of Prawn fishery?



**Watch Video Solution**

**66.** What are species of Prawn distributed in water bodies?



**Watch Video Solution**

**67.** Name the genus that produces high quality pearls.



**Watch Video Solution**

**68.** How is pearl formed?



**Watch Video Solution**

**69.** What are the steps of insertion of nucleus into oyster?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**72.** What is meant by the term "breed"? What are objectives of animal breeding?



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**73.** Name the method employed in animal breeding. According to you which of the methods is best?why?



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**74. What is Out crossing?**



**Watch Video Solution**

**75. Define cross breeding.**



**Watch Video Solution**

**76. What is Interspecific hybridization?**



**Watch Video Solution**

77. What is Artificial insemination?



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78. MOET technology is used to produce successful hybrids during breeding programmes for cattle.

a. Give the full form of MOET.

b. Explain the process.



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**79. What is Dairying and Dairy Operation?**



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**80. What are the groups of cattle?**



**Watch Video Solution**

**81. Distinguish between a healthy cattle and ill cattle.**



**Watch Video Solution**



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



**Watch Video Solution**

**83.** Write a note on milk products.



**Watch Video Solution**

**84.** Write on the nutritive value of meat.



**Watch Video Solution**

**85.** What is Poultry Farming?



**Watch Video Solution**

**86.** Write on the chicken breeds of egg layers.



**Watch Video Solution**

**87.** Write on the Broiler breed.



**Watch Video Solution**

**88.** What are Dual purpose chicken breeds?



**Watch Video Solution**

**89.** Write a short note on Game breeds.



**Watch Video Solution**

**90.** Write a short note on Ornamental chicken breeds.



**Watch Video Solution**

**91.** What are the types of Poultry farming?



**Watch Video Solution**

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



**Watch Video Solution**

**93.** What are poultry products?



**Watch Video Solution**

**94.** What are poultry products?



**Watch Video Solution**

**95.** Name Poultry diseases.



**Watch Video Solution**

**96.** Enumerate the benefits of Poultry Farming.



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



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**98.** What are the types of duck breeds.



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**99.** What are the advantages of duck farming?



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