



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

ECONOMIC BIOLOGY

Exercise Choose The Correct Answer

1. The production and management of fish is called

- A. Pisciculture
- B. Sericulture
- C. Aquaculture
- D. Monoculture

Answer: A



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2. Which one of the following is not an exotic breed of cow?

- A. Jersey
- B. Holstein-Friesian
- C. Sahiwal
- D. Brown Swiss

Answer: C

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3. Which one of the following is an Italian species of honey bee?

- A. *Apis mellifera*
- B. *Apis dorsata*
- C. *Apis florea*

D. Apis cerana

Answer: A



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4. Which one of the following is not an Indian major carp?

A. Rohu

B. Catla

C. Mrigal

D. Singhara

Answer: D



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5. Drones in the honey bee colony are formed from

- A. unfertilized egg
- B. fertilized egg
- C. parthenogenesis
- D. both b and c

Answer: B

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6. Which of the following is an high milk yielding variety of cow?

- A. Holstein-Friesian
- B. Dosert
- C. Sahiwal
- D. Red Sindhi

Answer: A

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7. Which Indian variety of honey bee is commonly used for apiculture?

- A. *Apis dorsata*
- B. *Apis floera*
- C. *Apis mellifera*
- D. *Apis indica*

Answer: D



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8.is the method of growing plants without soil.

- A. Horticulture
- B. Hydroponics
- C. Pomology

D. None of these

Answer: B



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9. The symbiotic association of fungi and vascular plants is.....

A. Lichen

B. Rhizobium

C. Mycorrhizae

D. Azotobacter

Answer: C



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10. The plant body of mushroom is

- A. Spawn
- B. Mycelium
- C. Leaf
- D. All of these.

Answer: C

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Exercise Fill In The Blanks

1. Quinine drug is obtained from

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2. Carica papaya leaf can curedisease.

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3. Vermicompost is a type of soil made by And microorganisms.

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4.refers to the culture of prawns, pearl and edible oysters.

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5. The largest member in a honey bee haive is the

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6.is a preservative in honey.

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7.is the method of culturing different variety of fish in a water body.



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Exercise True False

1. Mycorrhiza is an algae.



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2. Milch animals are used in agriculture and transport.



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3. *Apis floera* is a rock bee



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4. Ongole is an exotic breed of cattle



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5. Sheep manure contains high nutrients than farm yard manure.



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Exercise Differentiate The Following

1.1. Exotic breed and Indigenous breed.



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2.

Pollen

Pollen is a fine to coarse powdery substance comprising pollen grains which



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3. Shrimp and Prawn

Shrimp

Shrimp has lamellar gills.

Shrimp have claws on two of their five pairs of legs.

Prawn

Prawns have branching gills.

Prawns have claws on three pairs of legs.



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4. Farmyard manure and Sheep manure

Farmyard manure

Well decomposed farm yard manure contains 0.5% Nitrogen, 0.2% available Nitrogen.



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Exercise Match The Following

Column A

1. Lobsters

2. Catla

3. Sea bass

4. Oysters

1.

5. Pokkali

6. Pleurotus sps

7. Sarpagandha

8. Olericulture

9. Wrighta tinctoria

Column B

(a) Marine fish

(b) Pearl

(c) Shell fish

(d) Paddy

(e) Fin fish

(e) Psoriasis

(e) Oyster mushroom

(h) Reserpine

(e) Vegetable farming



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Exercise Answer In Brief

1. What are secondary metabolites?



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Exercise Answer In Brief

1. What are the types of vegetable garden?

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2. Mention any two mushroom preservation methods.

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3. Enumerate the advantages of vermicompost over chemical fertiliser.

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4. What are the species of earthworm used for vermiculture?

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5. List the medicinal importance of honey.



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Exercise Answer In Detail

1. 1. Enumerate the advantage of hydroponics.



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2. Define Mushroom culture. Explain the mushroom cultivation methods.



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3. What are the sources of organic resources for vermicomposting?



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4. Give an account of different types of fish ponds used for rearing fishes.



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5. Classify the different breeds of the cattle with suitable examples.



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Exercise Higher Order Thinking Skills

1. 1. Biomanuring plays an important role in agriculture. Justify



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2. Each bee hive consists of hexagonal cells. Name the material in which the cell is formed and mention the significance of the hexagonal cells.



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1. Discuss in your class room about the importance of crop insurance to farmers.

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2. Collect at least five medical plants from your locality. Identify the plant and try to find out its medicinal value.

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3. Visit a fish farm during the breeding season near your locality and collect information.

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1. is a branch of agriculture that deals with cultivation of fruits, vegetables and ornamental plants.

- A. Floriculture
- B. Horticulture
- C. Olericulture
- D. Moriculture

Answer: B



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2. Is growing of vegetables in small scale in households.

- A. Vegetable farming
- B. Flower farming
- C. Kitchen gardening
- D. Vegetable forcing

Answer: C



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3. Which one of the following is an African species of Honey bee?

- A. *Apis florum*
- B. *Apis indica*
- C. *Apis mellifera*
- D. *Apis adamsoni*

Answer: D



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4. Which one of the following is not an indigenous cow?

- A. Sahiwal

B. Jersey

C. Red Sindhi

D. Deoni

Answer: B



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5. Involves rising of cattle for milk production.

A. Dairy farming

B. Drying

C. Freezing

D. Canning

Answer: A



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6. Are low in fibre and contain high level of carbohydrates, protein and other nutrients.

A. Cattle feed

B. Roughage

C. Concentrates

D. Feed management

Answer: C



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7. The Contain the young stages of the honey bees and they are built in the centre and lower part of the comb.

A. brood cells

B. storage cells

C. drone chamber

D. queen chamber

Answer: A



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8.feeds on the organic wastes.

A. Bees

B. Earthworms

C. Prawns

D. Cattle

Answer: B



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[Additional Questions Fill In The Blanks](#)

1.1.is the science of growing vegetables.



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2. Compost is a as well as a fertilizer which is rich in nutrients.



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3.is a small bacterium that colonize the roots of leguminous plants to form root nodules.



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4. Application ofhas been found to increase yield of wheat, rice, maize and sorghum.



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5. Mycelium starts to form little bud which develops into a



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6. Compost for mushroom cultivation is prepared by mixing.....with number of organic materials like cow dung and inorganic fertilizers.



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Additional Questions True False

1. Vermicomposting is the rearing of earthworms for the production of vermicompost.



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2. Pasturage is the production of fruits



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3. Binomial name of Nilavembu is *Leucas aspera*.



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4. Mariculture is the culture of fishes and other aquatic organism in marine water near the sea coast.



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5. Operation flood programme is based on dairy commodity to increase milk supply in urban areas.



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[Additional Questions Match The Column](#)

1. Tulsi
 2. Nannari
 3. Vepalai
 4. Cinjona maram
 5. Nithya kalyani
 6. Thaila maram
- a. *Wrightia tinctoria*
 - b. *Cathyranthus roseus*
 - c. *Eucalyptus globulus*
 - d. *Hemidesmus indicus*
 - e. *Cinchona officinalis*
 - f. *Ocimum sanctum*

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Additional Questions Differentiate The Following

1. Marine water prawn culture and Freshwater prawn culture.

Marine water prawn culture

The rearing of marine penaeid prawn is called marine prawn culture or shrim

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2. Extensive fish culture and Intensive fish culture.

Extensive fish culture

Culture of fishes in large areas with low stocking density and natural feed

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3. Storgae cells and Brood cells

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Additional Questions Answer In Brief

1.1. Who are the father of Indian medicines?

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2. What is Spawning?

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3. What are the types of aquaculture?

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4. What is aquaponics?

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5. What is green manure? How is it beneficial?

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6. Write a note on nutritional value of fishes.

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Additional Questions Answer In Detail

1. 1. Explain hydroponics and give its importance.

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2. What are the types of honey bees found in a colony?

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3. Explain the methods used for vermicomposting.

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4. What are concentrates? Why should they be given to cattle?

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