



# **BIOLOGY**

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

### **ECONOMICALLY USEFUL PLANTS AND ENTREPRENEURIAL BOTANY**

**Textual Questions Solved**

1. Consider the following statements and choose the right option. i) Cereals are members of grass family . Most of the food grains come from monocothledon.

A. (i) is correct and (ii) is wrong

B. Both (i) and (ii) are correct

C. (i) is wrong and (ii) is correct

D. Both (i) and (ii) are wrong

**Answer: B**



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2. Assertion: Vegetables are important part of healthy eating.

Reason: Vegetables are succulent structures of plants with pleasant aroma and flavours.

A. a) Assertion is correct, Reason is wrong

B. b) Assertion is wrong, Reason is correct

C. c) Both are correct and reason is the correct explanation for assertion.

D. d) Both are correct and reason is not the correct explanation for assertion.

**Answer: C**



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**3. Groundnut is native of .....**

A. Philippines

B. India

C. North America

D. Brazil

**Answer: D**





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4. Statement A: coffee contains caffeine Reason

B: Drinking coffee enhances cancer

A. A is correct, B is wrong

B. A and B - Both are correct

C. A is wrong, B is correct

D. A and B - Both are wrong

**Answer: A**



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5. *Tectona grandis* is coming under the family

.....

A. Lamiaceae

B. Fabaceae

C. Dipterocarpaceae

D. Ebenaceae

**Answer: A**



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6. Tamarindus indica is indigenious to.....

A. Tropical African region

B. South India, Sri Lanka

C. South America, Greece

D. India alone

**Answer: A**



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7. New world species cotton

A. *Gossipium arboretum*

B. *G. herbaceum*

C. Both a and b

D. *G. barbadense*

**Answer: D**



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**8. Assertion:** Turmeric fights various kinds of cancer.



Reason: Curcumin is an anti-oxidant present in turmeric.

A. Assertion is correct, Reason is wrong

B. Assertion is wrong, Reason is correct

C. Both are correct

D. Both are wrong

**Answer: C**



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**9. Identify the correctly matched pair**

A. Rubber *Shorea robusta*

B. Dye *Lawsonia inermis*

C. Timber *Cyperus papyrus*

D. Pulp *Hevea brasiliensis*

**Answer: B**



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**10.** Observe the following statements and pick out the right option from the following:

Statement I- Perfumes are manufactured from

essentail oils.

Statement II- Essentail oils are formed at different parts of the plants.

- A. Statement I is correct
- B. Statement II is correct
- C. Both statements are correct
- D. Both statements are wrong

**Answer: C**



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11. Observe the following statements and pick out the right option from the following:

Statement I: The drug sources of Siddha include plants, animal parts, ores and minerals.

Statement II: Minerals are used for preparing drugs with long shelf - life .

- A. Statement I is correct
- B. Statement II is correct
- C. Both statements are correct
- D. Both statements are wrong

**Answer: C**



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**12.** The active principle trans tetra hydrocannabinol is present in

A. Opium

B. Curcuma

C. Marijuana

D. Andrographis

**Answer: C**



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**13.** Which one of the following matches is correct?

A. Palmyra — Native of Brazil

B.

Saccharun — Abundant in Kanyakumari

C. Steveocide — Natural sweetener

D.

Palmyra sap — Fermented to give ethanol

**Answer: C**



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**14.** The only cereal that has originated and domesticated from the New world.

A. *Oryza sativa*

B. *Triticum aestivum*

C. *Triticum durum*

D. Zea mays

**Answer: C**



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**15.** Write the cosmetic uses of Aloe.



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**16.** What is pseudo cereal? Give an example.



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**17.** Discuss which wood is better for making furniture.



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**18.** A person got irritation while applying chemical dye. What would be your suggestion for alternative ?



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**19.** Name the humors that are responsible for the health of human beings.



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**20.** Give definitions for organic farming.



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**21.** Which is called as "The King of Bitters"?

Mention their medicinal importance.



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**22.** Differentiate bio-medicines and botanical medicines.



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**23.** Write the origin and area of cultivation of green gram and red gram.



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**24.** What are millets? What are its types ? Give example for each type.



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**25.** If a person drinks a cup of coffee daily it will help him for his health . Is this correct ? If it is correct, list out the benefits .



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**26.** Enumerate the uses of turmeric.



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**27.** What is TSM ? How does it classified and what does it focuses on ?



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**28.** Write the uses of nuts you have studied



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**29.** Give an account on the role of Jasminum ans in perfuming.



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**30.** Give an account of active principle and medicinal values of any two plants you have studied



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**31.** Write the econpmic importance of rice.



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**32.** Which TSM is widely practiced and culturally accepted in Tamil Nadu ? - explain .



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**33.** What are psychoactive drugs? Add a note on Marijuana and Opium.



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**34.** What are the King and Queen of spices?

Explain about them their uses.



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**35.** How will you prepare an organic pesticide for your home garden with the vegetables available from your kitchen?



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**Additional Questions 1 Mark Questions**



1. Paddy, Wheat and Sorghum, etc., comes under the category of cereals. All the members of cereals belong to which of the following family?

A. a) Fabaceae

B. b) Poaceae

C. c) Leguminoneae

D. d) Caesalpinaeaceae

**Answer: B**



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2. Match the common names of the given plant species with their respective binomials.

- |                   |                                    |
|-------------------|------------------------------------|
| (A) Paddy         | (i) <i>Vigna radiata</i>           |
| (B) Lady's finger | (ii) <i>Triticum aestivum</i>      |
| (C) Wheat         | (iii) <i>Oryza sativa</i>          |
| (D) Green gram    | (iv) <i>Abelmoschus esculentus</i> |

A. a) A - iii, B - iv, C - ii and D - i

B. b) A - ii, B - iii, C - i and D - iv

C. c) A - i, B - iii, C - iv and D - ii

D. d) A - i, B - ii, C - iv and D - iii

**Answer: A**



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3. Given below are the plant species and their parts used. Which is the incorrect pair(s)?

(i) *Cajanus cajan* : Seeds

(ii) *Anacardium occidentale* : nuts

(iii) *Borassus flabellifer* : Endosperm

(iv) *Capsicum annum* : leaves

A. a) *i* and *ii*

B. b) *ii* and *iii*

C. c) *iii* only

D. d) *iv* only

**Answer: D**



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**4. Identify the tamil name for flaked rice.**

A. a) Nel

B. b) Aval

C. c) Pori

D. d) Umi

**Answer: B**





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5. Pigeon pea is the common name for \_\_\_\_\_

.

A. a) *Vigna radiata*

B. b) *Vigna mungo*

C. c) *Cajanus cajan*

D. d) *Sorghum vulgare*

**Answer: C**



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6. Sorghum is native to \_\_\_\_\_ continent.



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7. Match the following:

Column I

Column II

(1) Rice

(i) Arecaceae

(2) Cashew nut

(ii) Poaceae

(3) Lady's finger

(iii) Anacardiaceae

(4) Palm

(iv) Malvaceae

A. a) 1 - ii, 2 - iii, 3 - iv and 4 - i

B. b) 1 - iii, 2 - ii, 3 - iv and 4 - i

C. c) 1 - iii, 2 - i, 3 - ii and 4 - iv

D. d) 1 - iv, 2 - i, 3 - ii and 4 - iii

**Answer: A**



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**8.** I am the state tree of Tamilnadu. Who am I \_\_\_?



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**9.** Statement 1: *Arachis hypogea* belongs to

Fabaceae

Statement 2: It is a native of Brazil.

A. a) Statement 1 is correct and Statement 2 is also correct

B. b) Statement 1 is correct and statement 2 is incorrect

C. c) Statement 1 is incorrect and Statement 2 is correct

D. d) Both the Statements are incorrect

**Answer: A**



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**10.** Statement 1: Chinese discovered the paper.

Statement 2: Eucalyptus and Casuarina are the widely used tree species for making paper pulp.

A. a) Statement 1 is correct and Statement 2

is also correct

B. b) Statement 1 is correct and statement 2

is incorrect

C. c) Statement 1 is incorrect and Statement 2

is correct

D. d) Both the Statements are incorrect

**Answer: A**



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**11. Statement 1:** *Andrographis paniculata* is known as King of Bitters.

**Statement 2:** The decoction of *Andrographis* is used against Diabetes mellitus.

**A. a)** Statement 1 is correct and Statement 2 is also correct

B. b) Statement 1 is correct and statement 2 is incorrect

C. c) Statement 1 is incorrect and Statement 2 is correct

D. d) Both the Statements are incorrect

**Answer: B**



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**12.** Statement 1: Aloe vera belongs to the family Asphodelaceae.

Statement 2: *Jasminum grandiflorum* belongs to the family of Oleaceae.

A. a) Statement 1 is correct and Statement 2 is also correct

B. b) Statement 1 is correct and statement 2 is incorrect

C. c) Statement 1 is incorrect and Statement 2 is correct

D. d) Both the Statements are incorrect

**Answer: A**



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**13.** Which district of Tamil Nadu is the World's largest wholesale turmeric dealer?

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**14.** Assertion: Turmeric fights various kinds of cancer.

Reason: Curcumin is an anti-oxidant present in turmeric.

A. A is right R is wrong

B. Both A and R are wrong

C. A is wrong R is right

D. A and R are right R explains A.

**Answer: D**



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**15. Assertion (A):** Black pepper is a spice.

**Reason ( R):** Condiments are flavouring substances, generally added after the cooking of food.

A. a) A is right R is wrong

B. b) R explains A

C. c) Both A and R are right. R is not correct explanation for A.

D. d) Both A and R are wrong

**Answer: C**



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**16.** Select the new world species of cotton.

(i) *Gossypium hirsutum*

(ii) *Gossypium barbadense*

(iii) *Gossypium arboreum*

(iv) *Gossypium herbaceum*

A. *i* and *ii* only

B. *i* and *iii* only

C. *iii* and *iv* only

D. *ii* and *iv* only

**Answer: A**



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17. Binomial of teak is \_\_\_\_\_ .



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18. The plant source of marijuana is .....

A. *Andrographis paniculata*

B. *Phyllanthus maderaspatensis*

C. *Cannabis sativa*

D. *Papaver somniferum*

**Answer: C**



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**19.** Identify the incorrect statements:

(a) Morphine is used as potent hepatoprotective.

(b) Phyllanthin is used as a strong analgesic in surgery.

(c) Indian Acalypha is used to cure skin diseases.

(d) *Cissus quadrangularis* is widely used for treating bone fractures.

A. a) a and c

B. b) a and d

C. c) b and c

D. d) a and b

**Answer: D**



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**20. Identify the mismatched pair:**

A. a) Holy basil – *Ocimum sanctum*

B. b)

Indian gooseberry – *Phyllanthus amarus*

C. c) Vilvam — Aegle marmelos

D. d)

Veldt grape — Cissus quadrangularis

**Answer: B**



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**21.** The active principle in Marijuana is \_\_\_\_\_ .



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22. The second GI tag for Jasmine is 'Madurai Malli', which jasmine type has got the first GI tag?



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23. The principal coloring agent present in the leaf paste of *Lawsonia inermis* which give orange to dark red when applied on skin is \_\_\_\_\_ .



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24. Which state of India ranks first in coffee consumption?



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25. Name the plant family to which the coffee plant belong to?



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[Additional Questions 2 Mark Questions](#)

1. Give the binomials of paddy and wheat.



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2. What is maida? Mention its culinary purpose.



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3. Name any four millet varieties.



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4. Ragi rich food helps to overcome bone related ailments - justify.



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5. Eating millets is good for diabetic patients.

How?



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6. Write the health benefits of Kodo millet.



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7. Name the family does the cereals and pulses belong to.



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8. Write the common name for (i) *Vigna radiata*  
(ii) *Cajanus cajan*



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9. Why do we take vegetables in our diet?



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10. Write the binomials and the family of the given plants.

(a) Henna (b) Lady's finger (c ) Holy basil



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11. Which is our National fruit and State tree of Tamil Nadu?



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**12.** Point out the uses of sugarcane.



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**13.** What is toddy?



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**14.** How coffee plants are introduced to India?



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**15.** Differentiate spices and condiments .

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**16.** Mention any two Jute species.

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**17.** Name the plant species used for making paper pulp.



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**18.** What does NCB stands for? Mention its role.



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## Additional Questions 3 Mark Questions

**1.** Write a short note on foxtail millet.



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2. Write the botanical name and culinary uses of green gram.



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3. Mention the ways in which mangoes are used in Indian culinary.



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4. Write a note on origin and area of cultivation of cotton.



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**5. What is vulcanization? Who invented it?**



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**6. (b) Write a note on Henna.**



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**7. What are bio-pesticides? Why they are considered better than synthetic pesticides?**



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## Additional Questions 5 Mark Questions

1. Write the botanical name, origin, cultivational area and uses of Black gram.



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2. Give a detailed account on any one fibre yielding plant.



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3. Draw the tabular column mentioning the binomials, family name, useful part and the medicinal values of any five local medicinal plants.



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4. Explain the stepwise preparation of Bio-pest repellent from the leaves of *Azadirachta indica*



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## Higher Order Thinking Skills Hots Questions

1. The following are the binomials of economically useful plants. Mention their respective families.

(a) *Borassus flabellifer*

(b) *Mangifera indica*

(c) *Saccharum officinarum*

(d) *Curcuma longa*

(e) *Capsicum annum*

(f) *Tamarindus indica*



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2. Name the plant source from which the following products are obtained.

(a) Maida

(b) Rubber

(c) Morphine

(d) Coffee



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3. Mention the plant species or their products which are popularly known as (a) Black Gold of India (b) Queen of spices



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4. Complete the statements.

(a) Alphonso is a variety of \_\_\_\_\_ .

(b) Cayenne pepper is a variety of \_\_\_\_\_ .



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5. Siddha medicine is an age old practice in our nation. According to this medicinal system, what is the major cause for all sort of illness in humans?



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