



# **BIOLOGY**

## **BOOKS - SURA BIOLOGY (TAMIL ENGLISH)**

### **ECOMONICALLY USEFUL PLANTS AND ENTREPRENEURIAL BOTANY**

**Evaluation**

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 answer and (ii) is wrong

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

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

D. Both (i) and (i) 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. Assertion: is correct , Reason is wrong

B. Assertion: is wrong . Reason is correct

C. Both are correct and reason is the correct explanation for Assertion.

D. Both are correct and reason is not correct explanation for Assertion.

**Answer: A**



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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 the correct

D. A and B - both are wrong

**Answer: A**



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5. *Tectona grandis* is coming under family

A. Lamiaceae

B. Fabaceae

C. Dipterocarpaceae

D. Ebenaceae

**Answer: A::B::C**



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**6. Tamarindus indica is indigenous 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: Curumin 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. Find put 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 essential oils.

Statement II- Essential 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 statement are wrong

**Answer: C**



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12. The active principle trans tetra hydrocannabinol is present in

A. Opium

B. Curuma

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: D**



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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 plant is commonly known as king of Bitters





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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**



**Watch Video Solution**

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



**Watch Video Solution**

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



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



**Watch Video Solution**

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

.



**Watch Video Solution**

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



**Watch Video Solution**

**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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## **Botany Long Version Questions Long Version Evaluation**

**1.** This is an example of brush fibre yielding plant

A. Cyperus

B. Neem

C. Cotton

D. Palm

**Answer: A**



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**2. Find out wrongly paired one**

A. Burma teak \_ *Tectona grandis*

B. Rosewood -dalbergia sp.

C. Ebony - Diaspyros eberum

D. Henna shorea robusta

**Answer: A::B**



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**3. Select the mismatch .**

A. Andrographis - hepato protective

B. Adhatada

C. Phyllanthus-anti diabetic

D. Curumin - anti oxidant

**Answer: A::B::C::D**



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**4. Which of the following statements (s) is /are corrects?**

A. Mushrooms are the fruiting body of edible fungi .

B. Single - cell proteins are the dried cells  
of macrop organism

C. Regular use of liquid seaweed fertilizer  
will helps plants to withstands  
environmental stress .

D. SCP can complete replace the  
conventional protein sources.

**Answer: A::B::D**



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5. Select the incorrect pair

A. Chemical pesticides - safe for human and the environment.

B. Mushrooms - white vegetable.

C. Zarrouk medium - Culture medium .

D. Seaweed - Rich in potassium .

**Answer: (b) (i) and (iv)**



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6. Match the following pairs about mushroom cultivation

A. Rubber - *Shorea robusta*

B. Distance between blocks (ii) 20cm

C. Cap size at harvesting

D. Relative humidity (iv) 10-12cm

**Answer:**



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7. Assertion : In Spirulina culture, half of the required nutrients added first and the rest in later .

Reason: If all the nutrients are added first, it will affect the culture growth .

A. Both A and R are true and R is the correct explanation Of A .

B. Both A and R are true but R is not the correct explanation A .

C. A is true but R is false .



D. Both A and R are false .

**Answer: A::B::C::D**



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**8. What are cucurbits ? Why it is considered as an important summer vegetable?**



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9. Which fruit is rich in potassium ? Mention its economic importance .



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10. Define bonsai ?



**Watch Video Solution**

11. What is terrarium ?



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12. Write the economic importance of *Lycopersicon esculentum*.



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13. What are the advantages of cultivation of aromatic plants ?



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**14.** How will you make a Bonsai tree ?



**Watch Video Solution**

**15.** What is NMPB ?



**Watch Video Solution**

**16.** Describe the typws of fibres.



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**17.** What will you do if want to make a portable indoor greenery?



**Watch Video Solution**

**18.** Give an coount on cultivation of Gloriosa superba / Cybopogon citrates .



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**Additional Question And Answers Choose The Correct Answer**

1. All cereals are members of family\_\_\_\_\_.

A. Lamiaceae

B. Poaceae

C. Verbenaceae

D. Musaceae

**Answer: B**



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2. \_\_\_\_\_ is the only cereal which has originated and domesticated from the new world.

A. Paddy

B. Wheat

C. Millet

D. Maize

**Answer: D**



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3. \_\_\_\_\_ is used in manufacture of infant foods .

A. Rice bran oil

B. Corn syrup

C. Pearl millet

D. Quinoa

**Answer: B**



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4. \_\_\_\_\_ is an example of a pseudocereal.

A. Cinchona

B. Quinoa

C. Rauwolfia

D. Little Millet

**Answer: C**



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5. Finger Millet refers to \_\_\_\_\_

A. Little Millet

B. Kodo Millet

C. Ragi

D. Foxtail Millet

**Answer: C**



**Watch Video Solution**

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

A. India

B. Brazil

C. Africa

D. America

**Answer: C**



**Watch Video Solution**

7. Finger millet (Ragi ) is rich in \_\_\_\_\_

A. Potassium

B. Phosphorous

C. Calcium

D. Sodium

**Answer: C**



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8. Pulses belong to family \_\_\_\_\_

A. Poaceae

B. Fabaceae

C. Amaranthaaceae

D. Verbennaceae

**Answer: B**



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9. India contributes to 80% of global production of \_\_\_\_\_

A. Red gram

B. Black gram

C. Green gram

D. Chick pea

**Answer: B**



**Watch Video Solution**

10. Pigeon pea refers to \_\_\_\_\_.

A. Red gram

B. Green gram

C. Green gram

D. Black Gram

**Answer: B**



**Watch Video Solution**

11. \_\_\_\_\_ is the only pulse native to South India.

A. Pigeon pea

B. Bengal gram

C. Green gram

D. Black gram

**Answer: A**



**Watch Video Solution**

**12.** Infant food formulae uses \_\_\_\_\_ as an ingredient due to its high protein content.



A. Pigeon pea

B. Chick pea

C. Green gram

D. ragi

**Answer: C**



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**13. Banana is rich in**

A. Calcium

B. Potassium

C. phosphorous

D. Iron

**Answer: B**



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**14.** \_\_\_\_\_ is the edible part of date palm.

A. Aril

B. Mesocarp

C. Pericarp

D. Fleshy receptacle

**Answer: C**



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**15. \_\_\_\_\_** is the largest coffee producing state in India .

A. Tamilnadu

B. karnataka

C. Assam

D. Kerala

**Answer: B**



**Watch Video Solution**

**16.** \_\_\_\_\_ is the largest consumer of coffee in India.

A. Karnataka

B. Delhi

C. Tamilnadu

D. Kerala

**Answer: C**



**Watch Video Solution**

17. \_\_\_\_\_ is the largest producer of cocoa.

A. Kerala

B. Tamilnadu

C. coorg

D. Mysore

**Answer: A**



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**18.** India is the largest producer, consumer and exporter of \_\_\_\_\_.

A. Ginger

B. Pepper

C. Tumeric

D. cardamom

**Answer: C**



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**19.** Consumption of \_\_\_\_\_ can prevent heart attack.

A. Ginger

B. Turmeric

C. Pepper

D. Coffee

**Answer: B**



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20. \_\_\_\_\_ is a filling fibre.

A. Calotropis

B. Cane

C. Palm

D. Jute



**Answer: A**



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21. The wood of \_\_\_\_\_ is jet black.

A. Ebony

B. Teak

C. Rosewood

D. Sandal wood

**Answer: A**



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22. \_\_\_\_\_ is the largest producer of rubber in India.

A. Tamilnadu

B. Assam

C. Meghalaya

D. Kerala

**Answer: D**



**23.** Write a note on vulcanization of rubber.

A. Phosporous

B. Cement

C. Sodium

D. Sulphur

**Answer: D**



24. \_\_\_\_\_ is a carpenter

A. Teak wood

B. Rose wood

C. Ebony

D. Mahagoany

**Answer: A**



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25. Paste of the powdered stem of \_\_\_\_\_ is used to treat bone fractures

- A. *Acalypha indica*
- B. *Cissus quadrangularis*
- C. *Phyllanthus eblica*
- D. *Agele marmelos*

**Answer: B**



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26. \_\_\_\_\_ is used to treat Alzheimer's disease

A. Pepper

B. Phyllanthus

C. Turmeric

D. Cannabis

**Answer: C**



**Watch Video Solution**

27. A patent has been obtained for wound healing property of \_\_\_\_\_.

A. Adathodal

B. Holy basil

C. Turmeric

D. Acalypha indica

**Answer: C**



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28. citronella is got from \_\_\_\_\_.

A. Curuma longa

B. Cymbopogon

C. Lycopersicon esculentum

D. Indigofera annecta

**Answer: B**



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29. sweet leaf refers to \_\_\_\_\_.



A. Saccharum

B. Stevia

C. Prunus

D. Arachis

**Answer: B**



**Watch Video Solution**

**30.** Exudate form \_\_\_\_\_ is used in making palm sugar

A. root

B. fruit

C. inflorescence axis

D. stem

**Answer: C**



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**Additional Question And Answers Choose The Correct Statements**

1. (I) Aromatic oils are got from Aloe vera .

(II) The essential oil in Jasmine is and present in the epidermal cells of sepals and petals .

Heena is natural orange dye .

Indian Acalypha has anti-ageing properties.

A. I and iv

B. II and III

C. I , II and III

D. III only

**Answer: B**



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2. I THC is used in treating Glaucoma.

II Button is a type of SCP .

III Hanging gaudens are called Bonsai

IV Bio - pest repellent is got from *Azadirachta indica*.

A. II and III

B. III only

C. I and IV

D. II and IV

**Answer: C**



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3. I Rose wood is used for making ships .

II G. Artboretum is the old world speices of cotton.

III Chillies are good source of vitamins.

IV Chicks pea proteins has high amino acid content.

A. I, II and III

B. II ,III and IV

C. II and IV

D. IV only

**Answer: B**



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**Additional Question And Answers Choose  
Incorrect Correct Statements**

## 1. "Wheat "

A. Wheat is mostly cultivated in the South India.

B. Wheat flour is suitable to make bread.

C. Processed wheat flour is called Maida.

D. Malted wheat is a major raw material for producing alcoholic beverages.

**Answer: A**



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## Additional Question And Answers Assertion And Reason

1. Assertion: (A) Liquid seaweed enhances growth .

Reason: (R) : It is got from fungi.

A. Assertion is true and Reason is correct explanation of Assertion.

B. Assertion and Reason is true but Reason is not correct explanation of Assertion .



C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

**Answer: C**



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2. Assertion:(A) Mushrooms are the fruting body of eddible fungi .

Reason : they are rich in nutrients .

A. Assertion is true and Reason is correct explanation of Assertion.

B. Assertion and Reason is true but Reason is not correct explanation of Assertion .

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

**Answer: B**



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**3. Assertion:(A) Heena is a natural dye.**

**Reason(R) It is got from plants causes no irritation to the skin .**

**A. Assertion is true and Reason is correct explanation of Assertion.**

**B. Assertion and Reason is true but Reason is not correct explanation of Assertion .**

**C. Assertion is true and Reason is false.**

**D. Both Assertion and Reason are false.**

**Answer: A**



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**4. Pepper is indigenous to India >**

**Reason: It is used as an condiment.**

**A. Assertion is true and Reason is correct  
explanation of Assertion.**

**B. Assertion and Reason is true but Reason  
is not correct explanation of Assertion .**

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

**Answer: C**



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5. Assertion:(A): Caffeine enhances release of acetylcholine in brain .

Reason : It may reduce risk of diabetes.

A. Assertion is true and Reason is correct explanation of Assertion.

B. Assertion and Reason is true but Reason is not correct explanation of Assertion .

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

**Answer: B**



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# Additional Question And Answers Answer In One Word

1. Origin of the word 'cereals' is \_\_\_\_\_.



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2. The property of cereals which results to higher yield per unit area with more branches.



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3. The International rice research institute is located at \_\_\_\_\_



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4. Another name for miracle rice.



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5. Second most important food crop of the world.





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6. The common cultivated wheat variety in India



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7. The latin word from which the word pulse is derived\_\_\_\_\_.



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8. National fruit of India \_\_\_\_\_ .



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9. Substance found in abundance in mango \_\_\_\_\_.



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10. For which fruit of Tamilnadu the word 's' leading producer \_\_\_\_\_.





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11. The state fruit of Tamilnadu. \_\_\_\_\_



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12. From which country did Cashew originate \_\_\_\_\_.



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13. Native country of tea \_\_\_\_\_.



[Watch Video Solution](#)

14. Meaning of word "Theobroma" \_\_\_\_\_.



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15. The " Queen of Spices" \_\_\_\_\_.



[Watch Video Solution](#)

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

Explain about them their uses.



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**17.** Black Gold of India \_\_\_\_\_.



**Watch Video Solution**

**18.** Which substances imparts characteristic pungency to pepper \_\_\_\_\_.



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19. World 's largest wholesale market for turmeric.



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20. The substance which imparts yellow colour toturmeric\_\_\_\_\_.



[Watch Video Solution](#)

21. The active component present in chillies\_\_\_\_\_.



[Watch Video Solution](#)

22. What does the name tamarnidus mean\_\_\_\_\_.



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23. From which part of coconut is coir obtained\_\_\_\_\_.



[Watch Video Solution](#)

24. from which word is the 'paper' \_\_\_\_\_ .



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25. Who invented production of paper\_\_\_\_\_.



[Watch Video Solution](#)



26. Name the principle colouring matter in Henna.



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27. A mixture of glucosides got from Aloe vera \_\_\_\_\_.



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28. Meaning of the word perfume in Latin

\_\_\_\_\_.



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29. Substance present in the heart wood of 'Sandal wood' which gives the scented smell\_\_\_\_\_.



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

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**31.** Which science is said to have originated from Brahma in TSM.

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**32.** A well known hepto- protective plant used in Tamilnadu for treatment of Jaundice.



**Watch Video Solution**

**33.** Active principle in Adathodai\_\_\_\_\_.



**Watch Video Solution**

**34.** Scientific name of Nilavembu\_\_\_\_\_.



**Watch Video Solution**

**35.** Which plant is commonly known as king of Bitters



**Watch Video Solution**

**36.** A strong analgesic got from opium.



**Watch Video Solution**

**37.** White vegetable\_\_\_\_\_.



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**38.** In which medium can SCP be grown \_\_\_\_\_



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**39.** A Japanese art form using miniature trees grow in containers.



[Watch Video Solution](#)

40. A major constituent got from *Gloriosa superba*\_\_\_\_\_.



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41. A natural sweetner \_\_\_\_\_.



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**Additional Question And Answers Very Short Answer**

1. Origin of the word 'cereals' is \_\_\_\_\_.



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2. Give the botanical names of a. Rice b. Maize



**Watch Video Solution**

3. List the uses of corn.



**Watch Video Solution**



4. Mention the uses of sorghum.



**Watch Video Solution**

5. What is the significance of green tea?



**Watch Video Solution**

6. List the advantages of using jute for packing

.



**Watch Video Solution**

7. From which part of coconut is coir obtained\_\_\_\_\_.



**Watch Video Solution**

8. Mention the properties of ebony.



**Watch Video Solution**

9. What is vulcanization?



**Watch Video Solution**

**10.** Mention some uses of rubber.



**Watch Video Solution**

**11.** What is papyrus?



**Watch Video Solution**

**12.** What is indigo?



**Watch Video Solution**

**13.** Name a plant which has received two GI tags.



**Watch Video Solution**

**14.** What is the significance of phyllanthus



**Watch Video Solution**

**15.** What is morphine ?



[Watch Video Solution](#)

**16.** Give the botanical names of sugarcane and red pepper.



[Watch Video Solution](#)

**17.** The active componet present in chillies\_\_\_\_\_.



[Watch Video Solution](#)

**18.** Why is little millet best for diabetics ?



**Watch Video Solution**

**19.** Which is called miracle rich?



**Watch Video Solution**

**20.** Add a note on nutritional content groundnut.



**Watch Video Solution**

21. Why is coconut oil an ingredient of soaps?



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## Additional Question And Answers Short Answer

1. Why are cereals attributed as food plants?



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2. What is glycemic index?



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3. Give the botanical name of a millet and the uses.



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4. What is the significance of chick pea?



[Watch Video Solution](#)



5. Mention the edible parts of fruits in figs, pomegranate and papaya.



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6. Mention the uses of palmyra.



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7. How the oils classified?



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**8. What is the importance of stevia ?**



**Watch Video Solution**

**9. Groundnut oil is considered as premium cooking oil. Give reason.**



**Watch Video Solution**

**10.** What is colchicine , mention its medicinal uses?



**Watch Video Solution**

**11.** Differentiate spices and condiments .



**Watch Video Solution**

**12.** Enumerate the uses of turmeric.



**Watch Video Solution**

**13.** What is SCP ?



**Watch Video Solution**

**14.** Why is seaweed used as source of fertilizer ?



**Watch Video Solution**

**15.** Why can't SCP be used to completely replace conventional protein sources?



**Watch Video Solution**

**16.** What are the advantages of using liquid seaweed fertilizers?



**Watch Video Solution**

**17.** What is the lemongrass?



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**18.** Why do popcorn pop ?



[Watch Video Solution](#)

**19.** Write a note on uses of cotton . Mention its binomial.



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1. Write a note on teak as a valuable source of wood .



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2. Explain the steps involved in Mushroom cultivation .



[Watch Video Solution](#)

3. Write a note on dyes.



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4. Explain in detail about Bio-pests repellent and steps involved in preparation/

Explain the preparation of a organic pesticide.



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**Unit Test**



1. Assertion: Vegetables are important part of healthy eating. Reason: Vegetables are succulent structures of plants with pleasant aroma and flavours.

A. Assertion is correct , Reason is wrong

B. Assertion is wrong , Reason is correct

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

D. Both are correct and reason is not correct explanation for Assertion.

**Answer:**



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2. Find put the correctly matched pair.

A. Rubber - Shorea robusta

B. Dye - Indigofera anceta

C. Timber- cyperus papyrus

D. Pulp - hevea brasiliensis

**Answer:**



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

Statement I- Perfumes are manufactured from essential oils.

Statement II- Essential 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 statement are wrong

**Answer:**



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4. Groundnut is native of \_\_\_\_\_

A. Philippines

B. India

C. North America

D. Brazil

**Answer:**



**Watch Video Solution**

5. A major constituent got from *Gloriosa superba*\_\_\_\_\_.



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6. Choose the incorrect statements(s):

- A. Foxtail millet supports in strengthening of heart and improves eye sight .
- B. Thinal improves lactating mother .
- C. Kodo millet is originated from West Africa.
- D. Pulses are the edible seeds that are harvested from the fruits of malvaceae.

**Answer:**



**Watch Video Solution**

7. Choose the correct pairs.

A. Red gram - pigeon pea

B. Black gram - Chick pea

C. Vigna mungo-Bengal gram

D. Green gram- cajanus cajan

**Answer:**



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**8. Find out the odd man out**

A. Maize

B. Rice

C. Almond

D. Wheat

**Answer:**



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9. *Tectona grandis* is coming under family

A. Lamiaceae

B. Fabaceae

C. Dipterocarpaceae

D. Ebenaceae

**Answer:**



**Watch Video Solution**

**10.** Mention one difference between essential oil and vegetable oil.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**13. Why do popcorn pop ?**



**Watch Video Solution**

**14. Enumerate the uses of turmeric.**



**Watch Video Solution**