

(Pages : 4)

N – 1592

Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, April 2022

Career Related First Degree Programme under CBCSS

Group 2(a) : Botany and Biotechnology

BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND MEDICINAL  
BOTANY

(2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** the questions in a word or **one** or **two** sentences. Each question carries **1** mark.

Define the following :

1. Ethnobotany
2. Herbal drugs
3. Cereals
4. Beverages
5. Sacred trees
6. Folk medicines

P.T.O.

7. Economic botany
8. NMPB
9. Resins
10. Spices

(10 × 1 = 10 Marks)

#### SECTION – B

Answer any eight questions. Each question carries 2 marks. Answer not to exceed one paragraph.

11. Mention the medicinal value of Ginger.
12. Give the binomial and uses of pepper.
13. Comment on the nutritional value of fruits.
14. Mention the botanical name and uses of Black gram.
15. Comment on the role of NBGRI in conservation of medicinal plants.
16. Give the binomial, family and uses of Ragi.
17. What is meant by ethnic knowledge?
18. Explain the uses of Cardamom.
19. Comment on the major tribal communities in Kerala.
20. List out the insecticidal properties of Neem.
21. Mention the binomial and family of Cashew and Watermelon.
22. Give a brief account on dye yielding plants.
23. What are food adjuncts? Give example.

24. Comment on the uses of Cotton.
25. What are drug adulterants? Name two common adulterants.
26. Give the botanical name and uses of Wheat.

(8 × 2 = 16 Marks)

#### SECTION – C

Answer any six questions. Each question carries 4 marks. Answer not to exceed 120 words.

27. What are tuber crops? Add note on any one.
28. Write a brief account on any two oil yielding plants.
29. Explain the methods to collect ethnobotanical data.
30. Define Pharmacognosy and comment on its scope.
31. Explain the role of BSI in conserving medicinal plants.
32. Mention the disadvantages of traditional medicines.
33. Explain the role of sacred groves in conserving medicinal plants.
34. Comment on the role of pulses in human diet.
35. Describe the extraction procedure of herbal medicines.
36. Give the binomial, family and uses of Sugarcane.
37. Comment on the major cash crops of Kerala.
38. Give a brief account on plant parts used by tribes in their daily life as food.

(6 × 4 = 24 Marks)

## SECTION – D

Answer any two questions. Each question carries 15 marks. Answer not to exceed 3 pages.

39. Give an account on ancient and modern medicines practiced in India.
40. What are Crude drugs? Give an account on their sources.
41. Write an essay on common plants used by tribes.
42. Give an account on vegetables, their nutritional value and common examples.
43. Explain the method of cultivation of Paddy. Add note on its economic importance.
44. Give an account on medicinal plants. Add a note on their significance and conservation.

(2 × 15 = 30 Marks)

(Pages : 4)

N – 1593

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2022**  
**Career Related First Degree Programme under CBCSS**  
**Group 2(a) Botany and Biotechnology**

**Core Course**

**BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND MEDICINAL  
BOTANY**

**(2019 Admission)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

Answer all questions in a word or one or two sentences. Each question carries 1 mark.

1. Give the binomial of pepper.
2. What is the morphology of useful part in cotton?
3. Name a resin yielding plant.
4. Write the binomial of a plant having insecticidal properties.
5. Expand ICAR.
6. Name any two tribes residing in Kerala.
7. Which is the source plant of reserpine?

P.T.O.

8. Name two plants having roots with medicinal importance
9. What is BSI located?
10. Name the plants used by tribes for shelter

SECTION – B

(10 × 1 = 10 Marks)

Answer any eight questions. Each question carries 2 marks. Answer not to exceed one paragraph.

11. List the ethnobotanical use *Trichopus zeylanicus*.
12. Mention the binomial and morphology of useful part of two plants used as spices.
13. What is reflux extraction?
14. Discuss the role of NMPB in taxonomy research.
15. What are the medicinal uses of *Cucrcuma*?
16. What is maceration?
17. Mention the binomial of any four gourd vegetables.
18. What is the scope of pharmacognosy?
19. Discuss the medicinal value of *Saraca indica*.
20. Define ethnobotany.
21. What are the causes for drug adulteration?
22. What is decoction method of extraction?
23. Differentiate between cereals and millets.

24. What is a soxlet apparatus?
25. What are the applications of supercritical fluid extraction?
26. Write the binomial and family of black gram.

SECTION – C

(8 × 2 = 16 Marks)

Answer any six of the following. (Answer not to exceed 120 words). Each question carries 4 marks.

27. What is maceration? Explain its types.
28. Discuss the medicinal importance of *Asparagus* and *Hemidesmus*.
29. What is the role of ethnobotany in plant resource management?
30. Explain the methods of ethnobotanical data collection.
31. What are the methods of drug adulteration?
32. Write a brief description on Homeopathic system of medicine.
33. Explain the importance of *Aegle marmelous* and *Cynadon dactylon* in tribal medicine.
34. Explain the contribution of NBGRI in plant resource management and conservation.
35. What are the ideal properties of solvents to be used in drug extraction process?
36. Write a short note on economic importance of Neem plant.
37. Discuss the strategies adopted for protecting scared groves.
38. Write the ethnobotanical importance of *Ficus religiosa*.

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. (Not more than three pages). **Each** question carries **15** marks.

39. Explain various drug sources from plant parts with suitable examples.
40. Explain the role played by various organizations towards conservation of plant genetic resources.
41. Discuss the binomial and economic value of any five medicinally important plants.
42. What are sacred groves? Discuss its significance and need for conservation.
43. Explain the cultivation methods of paddy.
44. Describe various techniques used for drug extraction.

(2 × 15 = 30 Marks)

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, March 2020**

**Career Related First Degree Programme under CBCSS**

**Group 2 (a) Botany and Biotechnology**

**BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND  
MEDICINAL BOTANY**

**(2015 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

Answer **all** questions in a **word** or **one or two** sentences. **Each** question carries **1** mark. Draw diagrams only if specified in the question.

1. Write the morphology of useful part of Coconut.
2. Give the binomial and family of Asafoetida.
3. Mention any two ethnobotanical use of *Ficus religiosa*.
4. Give the binomial of Asoka.
5. Expand NMPB.
6. Who coined the term "ethnobotany".
7. Where is the headquarters of ICAR located?

**P.T.O.**

8. Write the family in which "Cotton" belongs.
9. Name the plant known for 'curcumin'.
10. Write the binomial of Jackfruit.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** of the following (Answer **not** to exceed **one** paragraph). Each question carries **2** marks.

11. What are the uses of Coconut?
12. Write the Binomial and family of the following?
  - (a) Sugar cane
  - (b) Henna
13. Name the two ancient medicinal systems developed in India.
14. What are the uses of Coffee and Sesame?
15. List out the plants and their parts used by tribes for shelter.
16. What are the medicinal values of *Asparagus* and *Hemidesmus*.
17. Name any two bioactive principles obtained from *Sarpagandha*.
18. Define pharmacognosy.
19. What is meant by "Jhum" cultivation?
20. Give the names of any two tribes in Kerala.
21. Comment on the uses of *Azadirachta indica*.
22. Write short notes on Unani medicines.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** of the following (Answer not to exceed **120** words). Each question carries **4** marks.

23. Write Binomial, Family and morphology of useful part of the Cereal, Millet and Spices you have studied. Comment on its uses.
24. What is the significance of sacred groves in conservation of plant resources?
25. List out the plants used by tribes for food and clothing. Add a note on the morphology of useful parts.
26. Write an account of four common vegetables used in Kerala.
27. Explain the medicinal value of the following:
  - (a) *Centella asiatica*
  - (b) *Andrographis paniculata*
  - (c) *Catharanthes roseus*
  - (d) *Aloe vera*
28. Briefly explain any two practices in Ayurveda you studied.
29. What is the scope of ethnobotanical studies?
30. What are the various sources of crude drugs obtained from plants. Cite one example from each.
31. Briefly explain the different categories of ethnobotanical studies.

(6 × 4 = 24 Marks)



SECTION – D

Answer **any two** questions (Not more than **three** pages). Each question carries **15** marks.

32. Give an account on the method of cultivation, morphology of useful part and economic importance of Paddy.
33. Briefly outline the various extraction procedures for herbal drugs production.
34. Explain the role of NMPB and ICAR in conservation and cultivation of medicinal plants.
35. Describe in detail the role of ethnobotanic aspect in conservation and management of plant resources.

**(2 × 15 = 30 Marks)**

Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, March 2021  
Career Related First Degree Programme Under CBCSS  
Group 2 (a) Botany and Biotechnology  
BB 1642 – ECONOMIC BOTANY, ETHNOBOTANY AND MEDICINAL  
BOTANY  
(2018 Admission Regular)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer all the questions in a word or **one** or **two** sentences.

Each question carries 1 mark.

1. Give two examples for Beverages.
2. Define Ethnobotany.
3. Write binomial of any two medicinal plants.
4. What are Herbal drugs?
5. What are Millets?
6. Define Condiments.
7. Define Pharmacognosy.
8. What are Sacred plants?
9. Give example for pulses.
10. What are Resins?

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer any **eight** questions. Each question carries **2** mark.

Answer not to exceed **one** paragraph.

11. Give the binomial and uses of Bengal gram.
12. What are sacred groves?
13. Comment on the role of NBRI.
14. Explain how Acupuncture works.
15. Mention the botanical name and family of two spices.
16. Why do we need to study ethnobotany?
17. Explain the medicinal properties of *Adhatoda*.
18. What are drug adulterants?
19. Mention the nutritional value of cereals.
20. What is meant by ethnic knowledge?
21. Why do we need to conserve medicinal plants?
22. What are herbage vegetables?
23. Give the binomial and morphology of the useful part in Apple.
24. Mention the medicinal value of Ginger.
25. Comment on the plants used by tribes for clothing.
26. Distinguish between Unani and Sidha.

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** questions. **Each** question carries **4** marks.

Answer not to exceed **120** words.

27. What are tuber crops? Add a note on any one of them.
28. Comment on various methods to collect ethnobotanical data.
29. Explain the role of ICAR in conservation of medicinal plants.
30. Comment on the scope of Pharmacognosy.
31. Write a brief account on any two dye yielding plants.
32. Give an account of plants used by tribes for shelter.
33. Explain the medicinal value of *Acorus calamus*.
34. Discuss the role of sacred groves in conservation of medicinal plants.
35. Comment on the insecticidal properties of Neem.
36. Discuss the ethnobotanical aspects of conservation of plant resources.
37. Describe the extraction procedure of herbal drugs.
38. Explain the principles of Ayurveda.

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. Each question carries **15** marks.

Answer not to exceed **3** pages.

39. Write a detailed account of Ethnobotany, its scope and importance.
40. What are Crude drugs? Give an account of their sources.
41. Give the binomial, family and uses of Paddy. Add a note on its method of cultivation.
42. Write an essay on common plants used by tribes.
43. Give the binomial, family, morphology of useful parts and utility of various fruits.
44. Give a general account of medicinal plants and their significance.

(2 × 15 = 30 Marks)

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, March 2021**  
**Career Related First Degree Programme under CBCSS**  
**Group 2(a) Botany and Biotechnology**  
**BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND MEDICINAL**  
**BOTANY**

**(2015 – 2017 Admission)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

Answer **all** the questions in a word or one or two sentences. Each question carries **1** mark.

1. Define Ethnobotany.
2. Give the binomial of Asafoetida.
3. Who is considered as Father of Indian Ethnobotany?
4. What is NMPB refers to?
5. What are crude drugs?
6. Give the definition of Economic botany.
7. Mention the binomial of a medicinal plant that yield reserpine.

8. What are sacred plants?
9. Point out the morphology of useful part in Apple.
10. What are medicinal plants?

(10 × 1 = 10 Marks)

SECTION – B

Answer any eight questions. Each question carries 2 marks. Answer not to exceed one paragraph.

11. Mention the botanical name and family of Cashew and Watermelon.
12. What are herbal drugs?
13. Explain the role of NBRI in conservation of medicinal plants.
14. Name the major tribal communities in Kerala.
15. Discuss the medicinal uses of *Saraca indica*.
16. List out the crude drugs obtained from fruits and seeds.
17. Comment on a fibre yielding plants.
18. What are Millets? Give the binomial of a millet.
19. Point out the insecticidal properties of Neem.
20. Explain Traditional medicines.
21. List out the medicinal properties of *Acorus calamus*.
22. Give the binomial and family of a medicinal herb used as traditional medicine for jaundice.

(8 × 2 = 16 Marks)

SECTION – C

Answer any six questions. Each question carries 4 marks. Answer not to exceed 120 words.

23. Give the binomial, family and uses of two dye yielding plants.
24. Discuss the role of Sacred Groves in conserving the diversity of medicinal plants.
25. Define Pharmacognosy. Comment on its scope.
26. Discuss the importance of fruits in human diet.
27. Comment on the medicinal properties of Aloe and Brahmi.
28. Discuss the contributions of BSI in the conservation of medicinal plants.
29. Comment on the role of pulses in human diet. Give examples.
30. What is meant by adulteration of drugs? Mention two common adulterants.
31. Give a brief account of sources of crude drugs.

(6 × 4 = 24 Marks)

SECTION – D

Answer any two questions. Each question carries 15 marks. Answer not to exceed 3 pages.

32. Give a detailed account of ancient and modern medicines.
33. Discuss the importance and scope of Ethnobotany. Give a brief account on various methods employed to collect ethno botanical data.
34. Give a detailed account on common plants used by Tribes.
35. Write a brief account of vegetables. Comment on its economic importance.

(2 × 15 = 30 Marks)





State true or false.

9. Tapioca tuber is a rich source of vitamin.
10. Adhatoda is used for the treatment of Asthma.
11. Cotton fiber is an example of xylem fiber.
12. The expansion of ICAR is Indian Council of Atomic Research.

Fill in the blanks.

13. Asafoetida is a gum resin obtained from \_\_\_\_\_
14. *Aegle marmelos* belong to the family \_\_\_\_\_
15. Cardol is an oil obtained from \_\_\_\_\_
16. Vernacular name of *Acorus calamus* is \_\_\_\_\_

#### SECTION – B

Answer any eight questions giving any four major points. (Each question carries a weightage of 1). (Weightage : 1×8=8)

17. Give the method of extracting oil from coconut.
18. Define crop rotation. What is its significance in agriculture ?
19. Give the medicinal significance of Sarpagandha.
20. Write an account on the cultivation of *Asparagus*.
21. Name two hybrid varieties each of coconut and paddy.
22. Name any four plants used by the tribes as food.
23. Write morphology of the useful part of cardamom and what is the economic significance of cardamom.
24. Give a brief account on the adulteration of drugs.
25. Briefly describe semi-dry system of rice production.
26. Write the significance of preservation of sacred groves.
27. Differentiate fatty oil from essential oil.
28. Write an account on the active principle in coffee.



#### SECTION – C

Answer any five questions. (Not more than one page). (Weightage : 2×5=10)

29. Write an account on the plantation crops of Kerala with special reference to the plants mentioned in your syllabus.
30. Give an account on the role of IMPB in the conservation and cultivation of medicinal plants.
31. Compare and contrast the Homoeopathic and Allopathic treatment systems.
32. Briefly describe the two pulse crops mentioned in the syllabus.
33. Give a brief account on the extraction of herbal drugs.
34. Write notes on the drugs obtained from flowers, fruits and seeds.
35. Write an account on traditional medicines. What is its relevance in the treatment of modern times ?
36. Give a brief account on any four of the vegetable crops studied.

#### SECTION – D

Answer any two questions. (Not more than three pages). (Weightage : 4×2=8)

37. Write an account on the cereals and millets of India. Explain the method of cultivation of paddy and ragi.
38. Briefly explain the common plants used for various purposes by tribes.
39. Give an account on various ancient and modern medicines mentioned in the syllabus.



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Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2017  
(Career Related First Degree Programme under CBCSS)  
Common for Group 2(a) Botany and Biotechnology and  
2(b) Biotechnology  
Core Course – XI/Core Course – XII  
BV 1641.1/BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND  
MEDICINAL BOTANY  
(2013 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

Answer **all** the questions in a word or **one** or **two** sentences. **Each** question carries **one** mark.

1. Name a plant whose bulb is medicinal.
2. Binomial of coffee plant.
3. To which family *Aloe vera* belongs?
4. Name a plant from the flower of which crude drug is extracted.
5. Binomial of Aswagandha.
6. Common plant included under Dasapushpa used by the tribes.
7. Binomial of cotton.
8. King of spices.
9. Useful part of Asafoetida.
10. Name the plant used against Jaundice.

(10×1=10 Marks)

**SECTION – B**

Answer **any 8** questions. **Each** question carries **2** marks. (Answer not to exceed **one** paragraph).

11. What is ethnobotany? Who coined the term?
12. Comment on Jeevani.
13. Write down the names of any two tribes of Kerala.
14. Write down the binomial and medicinal importance of Sarpagandha.





15. Expand ICAR. Where is its headquarters.
16. Point out the common plants used by tribes for their food.
17. Give the binomial and useful part of sugar yielding plant.
18. Name an economically important resin. Give its binomial.
19. Comment on unani medicine.
20. Write down Botanical names of 2 plants which yield drug from rhizome.
21. What is the main role of sacred groves ?
22. Binomial and family of Asoka.

(8×2=16 Marks)

### SECTION – C

Answer **any 6** questions. **Each** question carries **4** marks. (Answer **not** to exceed **120** words).

23. Define pharmacognosy. Comment on its scope.
24. Give a botanical description on coconut.
25. Give a general account of the methodology of cultivation of Ginger and Hemidesmus.
26. Give a brief description on the utility of black gram and Bengal gram specifying the binomial, family and morphology of useful parts.
27. Write an account on dye yielding plants.
28. List out the plants used by tribes for shelter and food. Describe any two.
29. Explain the methods of data collection in ethnobotany.
30. Give a brief account of 4 fruits specifying binomial and family.
31. What are herbal drugs ? Give an account on herbal drugs obtained from seeds.

(6×4=24 Marks)

### SECTION – D

Answer **any 2** questions. **Each** question carries **15** marks. (Answer **not** to exceed **three** pages).

32. Give a brief description on the methods of cultivation and botanical description of paddy. Note down the morphology of useful part and economic importance.
33. Briefly describe the common plants used in tribal medicine specifying systematic position, active principle, morphology of useful parts and uses.
34. Comment on the importance and the need for conservation of sacred groves. List out the agencies and describe their role in conservation and cultivation of medicinal plants.
35. Give an account on the sources of crude drugs.

(2×15=30 Marks)

Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, April 2019  
(Career Related First Degree Programme under CBCSS)  
Group 2 (a) : Botany and Biotechnology  
BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND  
MEDICINAL BOTANY  
(2015 Admission Onwards)

Max. Marks : 80

Time : 3 Hours

## SECTION – A

Answer **all** questions in a word or **one** or **two** sentences. **Each** question carries **1** mark.

Draw diagrams only if specified in the question.

1. Write the morphology of useful part of Paddy.
2. Give the binomial of Asafoetida.
3. Name the family in which bitter gourd belongs.
4. Give the binomial of a plant used by tribes for clothing.
5. Expand ICAR.
6. Write the binomial of Aswagandha.
7. Where is the headquarters of BSI located ?
8. Who is known as father of Indian ethnobotany ?
9. Name the major chemical principle obtained from turmeric.
10. Which is the oldest written medicinal system ?

**(10×1=10 Marks)**

P.T.O.



## SECTION - B

Answer any eight of the following (answer not to exceed one paragraph). Each question carries 2 marks.

11. Give the economic importance of Paddy.
12. Write the Binomial and family of the following.
  - a) Tapioca
  - b) Cotton.
13. What is the importance of ethnobotanical studies ?
14. Give the names of any two tribes in Kerala.
15. Explain the plant parts used by tribes for shelter.
16. Write down the medicinal values of two bulbous medicinal plants you have studied.
17. Name the major chemical principles obtained from *Rauvolfia serpentina*.
18. Define pharmacognosy.
19. What is shifting cultivation ?
20. Explain the ethnobotanical implications of *Aegle marmelos*.
21. Write the binomial of Neem. Mention its uses.
22. Define ethno-pharmacology. (8×2=16 Marks)

## SECTION - C

Answer any six of the following (answer not to exceed 120 words). Each question carries 4 marks.

23. Write Binomial, family and morphology of useful part of the pulses and spices you have studied. Add a note on its utility.
24. Write an account on sacred groves.



25. Explain the plant parts used by tribes as food and for clothing.
26. Give an account on common fruits used in Kerala.
27. Explain the medicinal value of the following :
  - a) Asparagus
  - b) Sarpagandha
  - c) *Catharanthes roseus*
  - d) *Aloe Vera*.
28. Explain the role of NMPB in conservation and cultivation of medicinal plants.
29. Briefly explain the different categories of ethnobotanical studies.
30. List various sources of crude drugs obtained from plants. Cite one example for from each.
31. "Ethnobotanical studies are significant". Explain. (6×4=24 Marks)

## SECTION - D

Answer any two questions (Not more than three pages). Each question carries 15 marks.

32. Give an account on the method of cultivation, morphology of useful part and economic importance of Coconut.
33. Describe in detail the role of ethnobotany in the conservation and management of plant resources.
34. Briefly describe traditional and modern systems of Medicine.
35. Define herbal drugs. Briefly outline the various extraction procedures for herbal drugs production. (2×15=30 Marks)



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A – 1375

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2016  
(Career Related First Degree Programme Under CBCSS)  
Common for Group 2(a) : Botany and Biotechnology  
and 2(b) Biotechnology  
Core Course – XI/Core Course – XII  
BV 1641.1/BB 1642 : ECONOMIC BOTANY, ETHNOBOTANY AND  
MEDICINAL BOTANY  
(2013 Admission)**

Max. Marks : 80

Time : 3 Hours

**Instruction :** Draw diagrams **only** if specified in the question.

**SECTION – A**

Answer **all** questions in a word or **one** or **two** sentences. **Each** question carries 1 mark.

1. Give the binomial of asafetida.
2. Name of an oil yielding plant.
3. Mention the use of *Bixa orellana*.
4. Name of a plant used by tribes for shelter.
5. What is NBPGR ?
6. Which part of Hemidesmus is used in medicine ?
7. Who is the father of Ayurvedic medicine ?
8. Give the binomial of sarpagandha.
9. What is bottle gourd ?
10. What is meant by sacred groves ?

**(10×1 = 10 Marks)**

P.T.O.



## SECTION - B

Answer **any 8** questions. **Each** question carries **2** marks. Answer **not** to exceed **one** paragraph.

11. Mention the principle behind Homeopathy.
12. How crude drug is prepared from seeds ?
13. What are the uses of *Acorus calamus* ?
14. Mention the role of BSI in the conservation of plants.
15. What is the ethno botanical importance of *Ocimum sanctum* ?
16. What are the primitive clothing materials used by the tribes ?
17. Briefly explain the method of cultivation of *Curcuma*.
18. Discuss the role of NBPGR in the conservation of medicinal plants.
19. What is Pharmacognosy ?
20. Write a short note on Sidha medicine.
21. How crude drugs are obtained from roots ?
22. What is tribal medicine ?

(8×2 = 16 Marks)

## SECTION - C

Answer **any six** of the following. **Each** question carries **4** marks. Answer **not** to exceed **120** words.

23. Give the binomial, family, morphology of useful part and utility of cardamom and bengal gram.
24. Mention the ethno botanical importance of *Ficus religiosa* and *Aegle marmelos*.
25. Describe the family, binomial, morphology of useful parts and utility of banana and citrus fruit.



26. What is meant by adulteration of drugs ?
27. What are the crude drugs obtained from stems and leaves ?
28. Write a short note on Ayurveda.
29. Give an account of cultivation of *Aloe vera*.
30. Write a short note on modern medicine.
31. Write an account of your experience in collecting data on tribal medicine.

(6×4 = 24 Marks)

## SECTION - D

Answer **any two** questions. **Each** question carries **15** marks. Answer **not** more than **three** pages.

32. Write an account of the major fruits of Kerala with special reference to the binomial, family, morphology of useful parts and utility.
33. Discuss the various methods of collecting the ethno botanical data.
34. Write an essay on the cultivation, botanical description, morphology of useful parts and economic importance of paddy.
35. Discuss the role of sacred groves in the conservation of plants and animals.

(2×15 = 30 Marks)