

Total number of printed pages-4

1 (Sem-4/FYUGP) BOT 44 MJ

2026

BOTANY

(Major)

Paper : BOT4400404MJ

(Plant Resources and Economic Botany)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate
full marks for the questions.*

1. Answer the following questions : $1 \times 5 = 5$

- (a) Nicotine is a natural_____ obtained from the genus_____.
- (b) Who coined the term ethnobotany?
- (c) Fiber consists of_____ cell.
- (d) Write scientific name of cultivated Jute plant of Assam.
- (e) Define IPR.

2. Answer **any five** of the following questions : $2 \times 5 = 10$

- (a) Describe the importance of traditional knowledge in ethnobotany.
- (b) Write scientific name of *two* timber plants of Assam.
- (c) Write brief note on millets.
- (d) Define crop introductions.
- (e) Write about causes of loss of genetic diversity.
- (f) Write a note on chemistry of Tea plant.
- (g) Economic importance of saffron.
- (h) What is clove oil? What are the uses of clove oil?

(i) Write morphological characters of coffee plants.

(j) What is Hindustan Center of Origin?

3. Answer **any four** of the following questions : $5 \times 4 = 20$

- (a) Write a note on evolution of new crops and varieties.
- (b) Describe the scope of ethnobotany.
- (c) What is the importance of germplasm diversity? Define cryopreservation as a method of conservation.
- (d) Give a brief account on nutritional importance of rice.
- (e) Discuss about the importance of beverage.
- (f) Write note on biofuel and its uses.
- (g) Write *five* benefits of fennel.
- (h) Write note on application of rice grain and straw.

4. Answer **any one** of the following questions :

10×1=10

(a) Write a note on classification of plant resources on the basis of their uses.

(b) Describe briefly about the wheat origin, morphology, post-harvest management and uses.

2+2+3+3=10

(c) Write a note on fodder legumes. Discuss about the importance of legumes to man and ecosystem. Why legumes are crucial in economic botany?

2+6+2=10

(d) Write explanatory notes on: 5+5=10

(i) Economic importance of spices.

(ii) Classification of essential oil, fats and its uses.