

Roll No. ....

**41267**

**B. Sc. (Hons.) Chemistry 4th Semester  
Examination – May, 2019**

**BOTANY**

Paper : CH(H)-404 Opt. - i

*Time : Three hours ] [ Maximum Marks : 40*  
*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Question No. 1 is **compulsory**. Attempt **four** more questions, selecting **one** from each Unit. All questions carry equal marks.

1. Explain the following terms : 1 × 8 = 8
- (i) Genetic diversity
  - (ii) Germplasm
  - (iii) Legumes
  - (iv) Caryopsis
  - (v) Saffron

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- (vi) Adulterants
- (vii) Ethnobotany
- (viii) Atropine

**UNIT – I**

2. Give the names of World primary centers of origin of cultivated crops as proposed by vavilov. 8
3. Write short notes on the following :
- (i) Crop domestication and loss of genetic diversity. 4
  - (ii) Importance of weeds in germplasm diversity 4

**UNIT – II**

4. Give general account of legumes and discuss their importance to man and ecosystem. 8
5. Write short notes on any **two** of the following: 4×2=8
- (i) Cultivation and uses of wheat
  - (ii) Botany and uses of potato
  - (iii) Chief pulses grow in India

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**UNIT – III**

6. Give local name, botanical name family and part used of any four spices. 8

7. Write short notes on the following : 4 × 2 = 8

- (i) Common adulterant of spices
- (ii) Processing of tea

**UNIT – IV**

8. Discuss the role of ethnobotany in 4 × 2 = 8

- (i) Conservation of indigenous plant wealth
- (ii) Drug discovery

9. Give the description and uses of any *two* of the following Medicinal plants : 4 × 2 = 8

- (i) *Azadirachta*
- (ii) *Emblica*
- (iii) *Withania*