

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 : $1 \times 8 = 8$
- (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: $4 \times 2 = 8$
- (i) Cultivation and uses of wheat
 - (ii) Botany and uses of potato
 - (iii) Chief pulses grow in India

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(2)

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*