

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

P. T. O.

- (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 grown in India

(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*

(3)