

Roll No.

70747

**M. Sc. (Botany) 3rd Semester Open
Elective Course Under CBCS
Examination – March, 2021**

PLANT SOURCES OF FOOD & HEALTH

Paper : 17BOTO2

Time : Three Hours]

[Maximum Marks : 80

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 : Attempt **four** questions in all. Question No. **1** is **compulsory**. Candidates have to attempt **three** more questions selecting **one** question from each Unit. Each question carries equal marks.*

1. Answer the following :

2 × 10 = 20

- (i) Why is sustainable agriculture important to our future ?

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- (ii) Why organic farming is better than conventional farming ?
- (iii) What is the inorganic farming ?
- (iv) Why vegetables and fruits are not kept together in storage ?
- (v) Climacteric and non climacteric fruits.
- (vi) Food parks and mandis.
- (vii) Differentiate vegetables and fruits.
- (viii) Pharmacology.
- (ix) Biopiracy.
- (x) What are the main effects of Biopiracy ?

UNIT – I

- 2. (a) Discuss the concept of organic farming. 8
- (b) Explain the Vavilovian 'gene centre' concept. 12
- 3. What is green revolution ? Discuss the pros and cons of green revolution. What are the strategies you will adopt to cater the increasing population of the world ? 20

UNIT – II

- 4. Define Horticulture. Discuss the classification of horticulture in details. 20
- 5. (a) What is Garden ? Discuss different types of garden and their relevance in present time. 14
- (b) Factor affecting horticulture in India. 6

UNIT – III

- 6. What is Pharmacology ? Give the general accounts of any *five* local plants of medicinal importance. 20
- 7. (a) Discuss the biopiracy of traditional medicine in details. 10
- (b) Discuss the medicinal plant diversity and management in details. 10