

Subject: Botany

Course No and Title: BOTC1422M/Economic Botany

Time: 2.15 hours Max Marks:100 Min. Marks:40

Section A: Objective Type Questions

Q1. Choose the appropriate Answer: (8x1.5=12)

- i. Who among the following is associated with the concept of Origin of cultivated plants
A Gregor Mendel B Vavilov
C Hutchinson D Morgan
- ii. Loss of genetic diversity refers to
A Reduction in genetic variability B Reduction in number of genetically identical individuals
C Increase in Species D Increase in Genetic variability diversity
- iii. *Oryza sativa* is
A Annual herbaceous B Biennial herbaceous
C Perennial herbaceous D Perennial woody
- iv. Which of the following is not a wood-yielding plant
A *Pinus* sp. B *Cedrus* sp.
C *Populus* sp. D *Glycine max*
- v. *Arachis hypogea* is
A Wood-yielding plant B Drug-yielding plant
C A cereal D Oil-yielding plant
- vi. Potato tuber is a source of
A Sucrose B Starch
C Oil D Protein
- vii. *Capsicum annuum* belongs to the Family
A Poaceae B Fabaceae
C Solanaceae D Liliaceae
- viii. The long, thin and twisted fibres of cotton are called as
A Lint B Fuzz
C Both A and B D None of the above

Section-B: Descriptive Type Questions (Short Type)

Q2: Answer all the Questions (8 x 4 =32)

- i. What do you mean by Plant Introduction? What is the difference between primary and secondary Introduction?
- ii. What do you mean by Crop Domestication?
- iii. What are Cereals? Name any three cereals.
- iv. Write any five uses of Soyabean.
- v. What are Essential oils? Name any two essential oil-yielding plants.
- vi. Why is beetroot considered to be of tremendous importance in human health?
- vii. What is Opium? Name the plant that serves as commercial source of it.
- viii. What is saffron of commerce?

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (4 x 7=28)

Q 3. Highlight the importance of germplasm diversity.

OR

Write a brief note on loss of genetic diversity.

Q 4. Give a brief account of the morphology of *Zea mays*.

OR

Give an account of various uses of the legume *Glycine max*.

Q 5. Bring out the various uses of Lavender.

OR

Write a note on the morphology of mustard plant.

Q6. Write a note on the morphology and uses of *Digitalis*.

OR

Describe the morphology and various uses of *Crocus sativa*.

Section – D: Descriptive Type Questions (Long Type)

Answer any two of the following: (2 x 14=28)

Q 7. Write in detail the concept of centre of origin of cultivated plants.

8. Discuss in detail the origin, morphology and uses of wheat.

Q 9. Give a detailed account of morphology, processing and uses of sugarcane.

Q 10 Give a general account of the spices used in Kashmir. Mention the Family and part used as spice for each plant.