## 1006E554

## M.Sc Sem.-2 Examination

P - 410

**Botony** 

Time: 2-00 Hours]

June 2022

[Max. Marks: 50

## Instructions:

- All questions in Section-I carry equal marks.
- Attempt any Three questions in Section-I.
- All questions in Section-II are COMPULSORY.

## Section-I

Section-1	
Q-1 A. What is Plant breeding? Explain its objectives, origin and hybrid vigour.	[07]
B. Explain in detail Marker assisted selection.	[07]
Q-2 A. Give principles and methods of plant breeding in self pollinated crops.	[07]
B. Write in short note on NBPGR.	[07]
Q-3 A. What is Dormancy? Give methods to break dormancy.	[07]
<b>B.</b> Give brief account on Hi-tech horticultural techniques used for the propagation post harvest storage of plants.	
Q-4 A. Write a short note on Grafting and Layering.	[07]
B. Explain propagation by seeds and describe its harvesting, storage and viability	[07]
Q-5 A. Explain in detail Xeriscaping.	
B. Give general account on Green house.	[07]
Q-6 A. Discuss the role of CPCRI and APEDA.	[07]
B. Write a short note on Organic farming.	[07]
Q-7 A. Give a note on Food technology for better health.	[07]
B. Explain in detail Biogas technology.	[07]
Q-8 A. Discuss energy efficient growing techniques in brief.	[07]
	[07]
B. Write a short note on Carbon credit concepts.	[07]
Section-II	

Q-9 MCQs: [08]

- 1. What are Root suckers?
  - A) New plant parts that arise from the branches of fruit trees
  - B) Insects that suck nutrients from the roots of the plants
  - C) Shoots that arise from the roots to form new plants
  - D) Roots of neighbouring plants that share water with the another plant

2	. Which of the following increases the soil pH?
	A) Lime
	B) Sand
	C) Magnesium
	D) Nitrogen
3.	Which statement is correct about cloned plants?
	A) Cloned plants are genetically superior to the parent plant
	B) Cloned plants are genetic duplicates of the parent plant
	C) Cloned plants are genetically superior to the plants propagated from the seeds
	D) Meiosis is the part of the cloning process that produces the plant
4.	Plants that shed their leaves in autumn are known as
	A) Deciduous
	B) Evergreen
	C) Biennials
	D) Annuals
5.	in the for thank broading:
	A) Provides disease resistant plants
	B) Helps to increase the yield of crops
	C) Plants that are not suited for cultivation
_	D) Purposeful manipulation of plant species
6.	Xeriscaping is a landscaping process that requires
	A) Water conservation
	B) Draining water from landscape area
	C) Arid landscaping
~	D) No water in landscape
/.	Full form of APEDA is
	A) Agricultural and Procured Food Products Export Development Authorization
	B) Authority of Processed Food Products Export and Design
	C) Agricultural Plants Extension and Development Authority
0	D) Agricultural and Processed Food Products Export Development Authority
8.	Art of shaping plants into geometric shapes is called as
	A) Bonsai
	B) Topiary C) Pot pourri
	D) Ikebana
	D) INCUALIA