

--	--	--	--	--	--	--	--	--	--



# GIET UNIVERSITY, GUNUPUR – 765022

B. Sc (AG) (Third Semester – Regular) Examinations, December – 2020

## HORT-213 – PRODUCTION TECHNOLOGY FOR VEGETABLES AND SPICES

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

### PART – A

Q.1. Fill in the blanks with suitable word / figure.

(10 x 0.5 = 5 Marks)

- \_\_\_\_\_ sp/crop used as rootstock for grafting in Brinjal. (*Solanum torvum*)
- \_\_\_\_\_ induces more pistillate flowers in Cucumber (Ethrel /Ethephon)
- Pseudomonas fluorescens* controls \_\_\_\_\_ borne diseases of Cabbage (soil/seed)
- Arka manik is improved variety of \_\_\_\_\_ (Watermelon)
- Peas and Beans are belongs to the family \_\_\_\_\_ (Leguminaceae)
- Soft rot is a common disease of \_\_\_\_\_ (Onion/Ginger)
- \_\_\_\_\_ is called as Queen of spices (Cardamom)
- \_\_\_\_\_ is the head quarters of IISR in India (Kerala)
- Seed rate of Ginger \_\_\_\_\_ kg/ha (1500 to 1800)
- Piper nigrum* belongs to the family of \_\_\_\_\_ (*Piperaceae*)

Q. 2. Define (or) Explain the following in one or two sentences.

(5 x 1 = 5 Marks)

- Maturity indices for Tomato
- What is blanching? Give examples
- What is vegetable forcing? Give examples
- What is bleached Ginger?
- Sex expression in Cucurbits

Q3. Match the following

(10 x 0.5 = 5 Marks)

Column – A		Column – B	
(a)	Tomato	(i)	Lycopene
(b)	Brinjal	(ii)	Grafting
(c)	Chilli	(iii)	Anthocyanin
(d)	Carrot	(iv)	Apiaceae
(e)	Cucurbits	(v)	Momordicin
(f)	Cole crops	(vi)	Cruciferaceae
(g)	Bhendi	(vii)	Direct sowing
(h)	Pepper	(viii)	Piperine
(i)	ICRI	(ix)	Kerala
(j)	Ginger	(x)	Gingiberaceae

--	--	--	--	--	--	--	--	--	--

**Q4. Write True or False against each statement****(10 x 0.5 = 5 Marks)**

- a. Root vegetables should be washed with 25-50 ppm of chlorine
- b. Determinate varieties of Tomato needs training
- c. Peas and beans fixes atmospheric nitrogen in the soil
- d. Grafting technique in brinjal standardised by TNAU, Coimbatore
- e. CPRI is situated in Himachal Pradesh
- f. Karimunda is most popular cultivar of pepper in Kerala
- g. Rio-de-janeiro is an exotic cultivar of Ginger
- h. Roma is a variety of Cardamom
- i. Oleoresin is pungent principle of Pepper
- j. Tomato is originated from India

**PART – B****Attempt ANY FIVE questions. All question carries equal marks****(6 x 5 = 30 Marks)**

5. Describe production techniques of Onion.
6. Role of growth regulators application in vegetable crops with examples.
7. Explain production technology for Cucumber.
8. Briefly write production technology for Cardamom
9. Explain different propagation methods of Pepper with diagrams
10. Narrate processing of Turmeric

--- End of Paper ---