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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**

**B. Sc. (Ag.) (Third Semester) Examinations, November 2024
HORT-213 - Production Technology for Vegetables & 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.

(0.5 x 10 = 5 Marks)

- a. Red colour in Tomato is due to thepigment
- b. Scientific name of Onion.....
- c. Pungency in Chilli is due to
- d. The Central Potato Research Institute (CPRI) is located at
- e. Yellow vine mosaic is a serious viral disease ofcrop
- f. Browning in cauliflower is due to.....deficiency
- g. Cavity spot is a physiological disorder in carrot is due to the deficiency of
- h. Scientific name of Garden Pea.....
- i. Diploid chromosome number of Okra
- j. Seed rate of Amaranthus per hectare is.....

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

(1 x 5 = 5 Marks)

- a. Mulching
- b. Pithiness in Radish
- c. Weeding
- d. Damping off in nursery
- e. Market garden

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A

Column – B

- | | |
|------------------|------------------------------|
| (a) Knol khol | (i) Zingiberaceae |
| (b) Onion | (ii) Clove |
| (c) Okra | (iii) Cucurbits |
| (d) Garlic | (iv) Bulb |
| (e) Potato | (v) Legume crop |
| (f) Garden Pea | (vi) King of Spices |
| (g) Turmeric | (vii) Cruciferae |
| (h) Black pepper | (viii) Tuber |
| (i) Arka Arunima | (ix) Goitre |
| (j) Metaxenia | (x) Purple colour Amaranthus |

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Earthing up of potato is done 40 days after sowing.
- b. Garlic belongs to family Apiaceae
- c. The vegetable having 70% exchange earnings in export of fresh vegetable is onion
- d. Poinsettia is a variety of Cucumber.
- e. Pusa Ruby is an In- determinate variety of Tomato.
- f. The edible part of the Radish is a Root.
- g. Whiptail disease in Cauliflower is due to Calcium deficiency
- h. Pungency in Chilli is due to Curcumin.
- i. Pusa Sawani is a variety of Okra
- j. Heterostyly is observed in Amaranthus.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

5. What is premature bolting in Cabbage? Write in detail about production technology of Cauliflower?
6. Write down characteristic features and different sex forms in cucurbits?
7. Write scientific name and family of Black Pepper? Describe about production technology of Turmeric?
8. Define Vegetable? Write in detail about Vegetable classification based on plant part used and its importance in human nutrition?
9. What about Physiological disorders in Tomato? Write about harvesting stages in Tomato?
10. Write down the cultivation practices followed in Carrot?

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