



## BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(Ag)-Hons-2022

Course Name – Production Technology for Vegetables and Spices

Course Code - CC-BAG376(T)

( Semester III )

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Parasit, Kolkata - 700122

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Show the correct answer: Central Potato Research Institute (CPRI) is located at:
  - a) Shimla, Himachal Pradesh
  - b) Shilong, Meghalaya
  - c) Darjeeling, West Bengal
  - d) Ooty, Tamilnadu
- (ii) Show the correct answer: Indian Institute of Vegetable Research (IIVR) is located at:
  - a) Kolkata, West Bengal
  - b) Kochi, Kerala
  - c) Varanasi, Uttar Pradesh
  - d) New Delhi
- (iii) Select the correct answer: System of summer cultivation of cucurbits on river beds is termed as
  - a) Diara Cultivation
  - b) Jhoom Cultivation
  - c) Shifting Cultivation
  - d) Relay Cropping
- (iv) Show the correct answer: Indian Institute of Horticultural Research (IIHR) is located at:
  - a) Kolkata, West Bengal
  - b) Kochi, Kerala
  - c) Varanasi, Uttar Pradesh
  - d) Bangalore, Karnataka
- (v) Carrot is gross feeder of which primary nutrient?
  - a) Pottasium
  - b) Nitrogen
  - c) Phosphorus
  - d) Calcium
- (vi) Chilli hybrids CH-1 and CH-3 were released by which Agricultural Institute in 1992 and 2000 respectively using India's first GMS line MS-12?
  - a) IARI, New Delhi
  - b) PAU, Ludhiana
  - c) GBPUAT, Pantnagar
  - d) BCKV, Nadia
- (vii) Select the correct answer: Green to dry chilli ratio is
  - a) 10:1
  - b) 20:1
  - c) 30:1
  - d) 40:1
- (viii) Elephant Foot- a physiological disorder of which crop, that occurs when the crop is grown in greenhouse in the soilless media?
  - a) Tomato
  - b) Sweet Pepper

- c) Hot Pepper  
 (ix) Which is the Chemical Formula of Capsaicin?  
 a) C<sub>40</sub> H<sub>56</sub> O<sub>3</sub>  
 c) C<sub>22</sub> H<sub>25</sub> O<sub>6</sub> N  
 (x) Which is the Cross pollination % in chilli?  
 a) 70  
 c) 63  
 (xi) What is the minimum isolation distance that should be maintained for foundation seed production of chillies?  
 a) 200 m  
 c) 400 m  
 (xii) Self topping or self pruning term related to which type of growth habit of tomato?  
 a) Determinate  
 c) Semi-determinate  
 (xiii) Which is the most common method of training system for indeterminate types of tomato?  
 a) Multiple stem training  
 c) Central Leader System  
 (xiv) Which is the leading state in supplying bell pepper in off season?  
 a) Himachal Pradesh  
 c) Punjab  
 (xv) Select the variety which is the day neutral, spineless variety ok bhindi?  
 a) Pusa A-4  
 c) Arka Abhay  
 (xvi) Which is the leading producing country of okra in the world (accounting for 70% of the total okra production)?  
 a) Nigeria  
 c) India  
 (xvii) Ratoon cropping can be done in which crop?  
 a) Brinjal  
 c) Muskmelon  
 (xviii) What is the fruit type of cucurbitaceous vegetables?  
 a) Berry  
 c) Pepo  
 (xix) Show the correct answer: Directorate of Mushroom Research (DMR) is located at:  
 a) Solan, Himachal Pradesh  
 c) Darjeeling, West Bengal  
 (xx) Show the correct answer: Highest pungent chilli in the world:  
 a) Shimla Mirch  
 c) Bydagi Chilli
- d) Brinjal  
 b) C<sub>18</sub> H<sub>27</sub> NO<sub>3</sub>  
 d) C<sub>17</sub> H<sub>19</sub> O<sub>3</sub>N  
 b) 80  
 d) 100  
 b) 300 m  
 d) 500 m  
 b) Indeterminate  
 d) All of these  
 b) Single stem training  
 d) Open Center System  
 b) Haryana  
 d) Jammu and Kashmir  
 b) Pusa Sawani  
 d) Arka Anamika  
 b) Ghana  
 d) China  
 b) Tomato  
 d) Cucumber  
 b) Pome  
 d) Capsule  
 b) Shilong, Meghalaya  
 d) Ooty, Tamilnadu  
 b) Bhut Jolokia  
 d) Warangal Chilli

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### Group-B

(Short Answer Type Questions)

2.5 x  
 10=25

2. Explain the climatic parameters for successful cultivation of tomato. (2.5)
3. Explain the features of Processing tomatoes. (2.5)
4. What is truck garden? (2.5)
5. What is Market garden? (2.5)
6. Name few important introduced varieties of Sweet Pepper. (2.5)
7. Distinguish between Determinate growth habit of tomato and Indeterminate growth habit of tomato (2.5)

8. Classify the different stages of maturity in tomato (2.5)  
9. Classify the brinjal flowers depending on length of style in relation to position of anthers. (2.5)  
10. Discuss the importance of vegetables in National Economy (2.5)  
11. Name 5 important Monocotyledoneous vegetable crops along with their chromosome number, family and parts used. (2.5)

OR

Name few important introduced varieties of tomato. (2.5)

**Group-C**

(Long Answer Type Questions)

5 x 1=5

12. Classify different sex forms of cucurbitaceous vegetable crops along with suitable example of each. (5)

OR

Classify the tomato cultivars based on growth habit of the plants (5)

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