

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**

**B.Sc.(Hons.) Agriculture Winter 2023 - 24 Examination**

Semester: 3<sup>rd</sup>

Date: 16 /12 /2023

Subject Code: 20108202

Time: 10:30am to 1:00pm

Subject Name: Production technology for vegetables and spices

Total Marks: 50

**Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Do as Directed.****A. Fill in the blanks. (Each of 0.5 mark)****(05)**

1. Vegetables belongs to division.....
2. Okra is a rich source of .....
3. Edible portion of cauliflower known as.....
4. Study of vegetables is known as.....
5. The edible part of knoll-khol is.....
6. Browning in cauliflower is caused due to deficiency of .....
7. In Ridge gourd variety.....is hermaphrodite in sex form.
8. Cabbage pickle known as.....
9. Brinjal is propagated by.....
10. The bitter taste in some brinjal fruits is due to the presence of .....

**B. Multiple choice type questions. (Each of 0.5 mark)****(10)**

1. Multi style nature is observed in.....
 

a) Brinjal	c) Okra
b) Tomato	d) Cucumber
2. Root tuber is.....
 

a) Potato	c) Turmeric
b) Sweet potato	d) Ginger
3. Tomato fruit cracking is due to the deficiency of.....
 

a) Boron	c) Nitrogen
b) Sodium	d) Potash
4. Sugar baby is the variety of .....
 

a) Cucumber	c) Pumpkin
b) Watermelon	d) Potato
5. Garlic is propagated through .....
 

a) Clove	c) Leaf
b) Bulb	d) Seed
6. The dioecious vegetable is.....
 

a) Pointed gourd	c) Little gourd
b) Tomato	d) Both A & C
7. Which crops belong to the cool season crop?
 

a) Potato	c) Radish
b) Carrot	d) All of the above
8. Okra belongs to the ..... Family.
 

a) Chenopodiaceae	c) Alliaceae
b) Malvaceae	d) Cucurbitaceae
9. Mode of pollination of chilli is.....
 

a) Self pollinated	c) Often cross pollinated
b) Cross pollinated	d) None of the above
10. Pungency in radish due to the presence of ..... alkaloid.
 

a) Isothiocyanates	c) Quinine
b) Nicotine	d) Strychnine
10. Pungency in onion is due to the presence of.....
 

a) Diallyl disulphide	c) Capsaicin
b) Allyl propyl disulphide	d) Solasodine

12. Indian Institute of Vegetable Research is located at.....  
 a) New Delhi c) Bikaner  
 b) Varanasi d) Indore
13. Seed rate of cucumber is.....  
 a) 250- 300 g c) 12000 g  
 b) 700 g d) 1000 g
14. Indian Institute of Spices Research located at.....  
 a) Kerala c) Rajasthan  
 b) Tamil Nadu d) West Bengal
15. Purple colour in brinjal due to presence of.....  
 a) Solanine c) Anthocyanin  
 b) Carotenoid d) Lycopene
16. Which crop is known as the “King of spices” ?  
 a) Black Pepper c) Cardamom  
 b) Clove d) Ginger
17. Carrot belongs to the..... Family.  
 a) Cruciferae c) Cucurbitaceae  
 b) Solanaceae d) Umbelliferae
18. Scientific name of okra is.....  
 a) *Solanum melongena* L. c) *Allium cepa* L.  
 b) *Abelmoschus esculantus* Moench d) *Cucumis melo*
19. Onion is propagated by.....  
 a) Underground root c) Seed  
 b) Bulb d) Both B & C
20. Kanji prepared from.....  
 a) Potato c) Carrot  
 b) Radish d) Beet root

**Q.2 Do as Directed.**

**A. Define the following. (Any five out of seven)**

**(05)**

1. Olericulture
2. Transplanting
3. Vegetables
4. Propagation
5. Spices
6. Curing
7. Nursery

**B. Answer the following. (Any five out of seven)**

**(05)**

1. What is the blanching in cauliflower
2. Enlist the different physiological disorders of cauliflower
3. Write the importance of vegetables
4. Write about different types of vegetable gardens
5. Enlist different sex forms of cucurbits
6. Enlist the physiological disorder of tomato
7. Explain maturity indices of onion

**Q.3 Write short notes. (Any five out of six)**

**(10)**

1. Write about different maturity stages of tomato
2. Difference between Spices and condiments
3. Write down the climate and soil requirement for coriander and turmeric crop
4. Difference: Determinate and Indeterminate crop
5. Write down the classification of spices
6. How to prepare the nursery for vegetable crops?

**Q.4 Long Questions/Example (Attempt any three out of four)**

**(15)**

1. Explain in detail: Different types of flowers in Brinjal and their fruit set percentage with figure
2. Write the classification of vegetables with examples
3. Write down the climate and soil requirement for radish and carrot crop
4. Describe the details about the Tomato crop botany, raising of seedlings and detail cultivation package of practices.