

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Summer 2022 - 23 Examination

Semester: 4th

Date: 15-03-2023

Subject Code: 20108253

Time: 10:30am to 1:00pm

Subject Name: Production Technology for Fruit and Plantation crops

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. Which fruit is known as a National fruit of India _____.
2. Physiological disorder of Mango are _____.
3. Commercially Banana is propagated through _____.
4. IIA stands for _____.
5. _____ is the removal of low hanging branches which could hinder the orchard operations.
6. _____ Fruit is the rich source of Vit-C.
7. Botanical name of Mango is _____.
8. Significance increase number of fruit per tree was noticed in mango by soil application of _____.
9. IBA stands for _____.
10. Full form of ICMR _____.

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

1. Fruit cracking is due to _____ deficiency.

a) B	c) Mo
b) Ca	d) Zn
2. Matured ripened ovary is known as a _____.

a) Flower	c) Fruit
b) both a and c	d) NONE
3. Mallika variety of mango is cross of _____.

a) Neelum × Dashehari	c) Neelum × Alphonso
b) Dashehari × Neelum	d) Alphonso × Neelum
4. Which species of mango is completely free from fibre?

a) <i>M. mangifera</i>	c) <i>M. Decendra</i>
b) <i>M. indica</i>	d) NONE
5. Which type of inflorescence present in mango?

a) Terminal panicle	c) Composite
b) Umbel	d) Spike
6. Which fruit crop is known as a “Kalpvriksha” or “Tree of Heaven” _____.

a) Banana	c) Mango
b) Papaya	d) Coconut
7. Banana Bunchy top viral disease is transmitted through _____ vector.

a) Aphid	c) Jassid
b) Both a and c	d) Thrips
8. Pusa Majesty is the variety of _____ crop.

a) Mango	c) Papaya
b) Ber	d) Amla
9. Allahabad Safeda is the famous variety of _____ Fruit crop.

a) Coconut	c) Apple
b) Guava	d) NONE
10. Ratna hybrid variety of mango is cross of _____.

a) Neelum × Dashehari	c) Neelum × Alphonso
b) Dashehari × Neelum	d) Alphonso × Neelum

11. _____ is the physiological disorder of mango.
 - a) Mango malformation
 - b) Spongy tissue
 - c) Soft nose
 - d) All of the above
12. Which variety of mango used in HDP _____ .
 - a) Alphonso
 - b) Both(a) and (b)
 - c) Amrapali
 - d) None
13. Botanical name of guava is _____.
 - a) *Psidium guajava*
 - b) *Mangifera indica*
 - c) *Malus domestica*
 - d) NONE
14. Family of mango _____.
 - a) Aracaceae
 - b) Anacardeaceae
 - c) Myrtaceae
 - d) NONE
15. _____ are the variety of banana.
 - a) Poovan
 - b) Robusta
 - c) Rasthali
 - d) All of the above
16. Banana is propagated through _____.
 - a) Suckers
 - b) Seed
 - c) Tissue culture
 - d) Both a and c
17. Most commonly papaya is propagated through _____ method..
 - a) Sexual propagation
 - b) Both a and c
 - c) Asexual propagation
 - d) NONE
18. _____ is the vector of papaya mosaic virus.
 - a) Jassid
 - b) White fly
 - c) Aphid
 - d) None
19. Which vegetables family should be avoided during banana plantation?
 - a) Limaceae
 - b) Solanaceae
 - c) Cucurbitaceous
 - d) Brassicaceae
20. Highest papain content variety of papaya is _____.
 - a) CO-2
 - b) CO- 1
 - c) CO- 6
 - d) All about

Q.2 Do as Directed.

A. Define the following. (Any 5 out of 7) (1 mark each)

(05)

1. Budding
2. Tapka stage
3. Fruit
4. Seed dormancy
5. Plant growth regulator
6. Grafting
7. Pruning

B. Answer the following. (Any 5 out of 7) (1 mark each)

(05)

1. Enlist the types of Grafting.
2. Give the example of plant growth regulators.
3. List out the different varieties of Papaya.
4. Enlist the varieties of mango.
5. Maturity indices of banana.
6. Give the botanical name and family of papaya.
7. Give the control measures for fruit rot disease of guava.

Q.3 Write short notes. (Any 5 out of 6) (2 marks each)

(10)

1. Define thinning out process.
2. Enlist physiological disorder of Mango
3. Explain propping in Banana.
4. Selection of seedling for planting of coconut.
5. Difference between sexual and asexual propagation
6. Papain extraxtion.

Q.4 Attempt any Three out of Four/Long Questions/Example (5 marks each)

(15)

1. What are the benefits of intercropping? What are the intercrop in banana plantation?

2. Write down the different hybrids of mango and their parents.
3. Write down scope and importance of fruits and plantation crops.
4. Explain Scarification and stratification of seed.