

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

**B.Sc. (Hons.) Agriculture Summer 2018 - 19 Examination**

Semester: 4

Date: 05/04/2019

Subject Code: 20108253

Time: 10:30 AM to 1:00 PM

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 bathroom fruit \_\_\_\_\_.
2. Significance increase number of fruit per tree was noticed in mango by soil application of \_\_\_\_\_.
3. Fruit cracking physiological disorder is due to deficiency of \_\_\_\_\_.
4. \_\_\_\_\_ is the removal of low hanging branches which could hinder the orchard operations.
5. IBA stands for \_\_\_\_\_.
6. \_\_\_\_\_ is the removal of branches inside the tree which cross over the centre of the tree restricting the penetration of spray.
7. \_\_\_\_\_ Fruit is the rich source of pectin.
8. Botanical name of papaya is \_\_\_\_\_.
9. In mango specific gravity of most of the fruit is reaching between \_\_\_\_\_ and \_\_\_\_\_.
10. Commercially guava is propagated through \_\_\_\_\_.

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

1. Soft nose in mango 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. Amrapalli 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. Madhubindu 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. Mallika 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) Kesar
  - c) Amrapali
  - d) Badam
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) Grand Naine
  - 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. Most serious pest of coconut \_\_\_\_\_.
  - a) Rhinoceros beetle
  - b) Black headed caterpillar
  - c) Coconut mite
  - d) Red palm weevil
20. Highest papain content variety of papaya is \_\_\_\_\_.
  - a) CO-2
  - b) CO-6
  - c) CO-1
  - d) All of the above

**Q.2 Do as Directed.**

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

**(05)**

1. Productivity
2. Tapka stage
3. Hygiene
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 cutting.
2. Give the example of plant growth regulators.
3. List out the different varieties of banana.
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. Explain desuckering in Banana.
2. Importance and scope of Plantation crops.
3. Explain propping in Banana.
4. Nursery management of coconut.
5. Propagation.
6. Papain extraxtion.

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

**(15)**

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