

PARUL UNIVERSITY
FACULTY OF AGRICULTURE
B.Tech. (Agriculture Engineering) Winter 2019-20 Examination

Semester: 3

Date: 04/12/2019

Subject Code: 20103209

Time: 10:30 am to 12:30 pm

Subject Name: Principles of Horticultural crops and Plant Protection

Total Marks: 50

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
- 3 Start new question on new page.

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

1. Scientific name of mango is-----
2. Family of Banana is-----
3. Grape cuttings are treated with -----to promote rotting.
4. Pruning in Ber is done in the month of -----
5. Papaya is a rich source of-----
6. Citrus canker is caused by -----
7. New commercial variety of Pomegranate is-----
8. Pineapple is propagated by-----
9. Pusa Red Lady is a variety of -----
10. Fruit of Pomegranate is cracked due to the deficiency of -----

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

1. It is used for watering of seed bed and young seedling in nursery

a) Garden shear	c) Secateur
b) water cane	d) Dibbler
2. Effective in breaking seed dormancy and promote seed germination

a) GA3	c) Cow urine
b) KNO ₃	d) All above
3. Hybrid variety of Mango

a) Ratna	c) Amrapali
b) Sindhu	d) All above
4. Commercial variety of Banana

a) Robusta	c) Simandhi
b) Grand Nain	d) All above
5. Thompson Seed less is a variety of

a) Guava	c) Grape
b) Papaya	d) None
6. Bhagva is a variety of

a) Citrus	c) Sapota
b) Pomegranate	d) Apple
7. The family of Tomato

a) Cucurbitaceae	c) Leguminaceae
b) Solanaceae	d) Brassicaceae
8. Cold season vegetable

a) Cabbage	c) Garlic
b) Cauliflower	d) All above
9. Vegetable tree is

a) Beet	c) Drum stick
b) Amaranthus	d) Asparagus
10. Types of seed bed

a) Raised Bed	c) Sunken Bed
b) Flat Bed	d) All above
11. Methods of pruning

a) Disbudding	c) Pinching
b) Heading back	d) All above

12. Training system used in grape
 a) Fan system
 b) Corden system
 c) Kniffin
 d) All above
13. Methods of irrigation
 a) Drip
 b) Sprinkler
 c) Both a & b
 d) None
14. Fertilizer application methods are
 a) Placement
 b) Fertigation
 c) None
 d) Both a&b
15. Pineapple propagated by
 a) Cutting
 b) Seed
 c) Slip-Offset
 d) Sucker
16. Fruit dropping controlled by spraying of
 a) NAA
 b) GA
 c) Cytokine
 d) Ethylene
17. Bunchy top disease of Banana is caused by
 a) Fungi
 b) Virus
 c) Bacteria
 d) Nematodes
18. Ripening hormone is
 a) Gibberellins
 b) Cytokinin
 c) Ethylene
 d) Auxin
19. Pollination agents
 a) Insects
 b) Birds
 c) Winds
 d) All above
20. Mango belongs to the family
 a) Moraceae
 b) Anacardiaceae
 c) Musaceae
 d) Apocynaceae

Q.2 Do as Directed.

A. Define the following. (Any five)

(05)

1. Nipping
2. Propagation
3. Horticulture
4. Olericulture
5. Polyembryonic
6. Layering
7. Mulching

B. Answer the following. (Any Five)

(05)

1. Write the benefits of Asexual propagation
2. Give methods of sowing
3. What is seed? Write on seed treatments.
4. What are the benefits of Green House?
5. Write on scope of Horticulture
6. How you are controlled Spongy tissue in Mango ?
7. Write control measures of Collar Rot disease of Papaya

Q.3 Write short notes. (Any five)

(10)

1. Types of Cutting
2. Mango malformation
3. Micro-irrigation
4. Use of Plant Growth Regulators
5. Soft – Wood grafting
6. Pruning and Training

Q.4 Attempt any Three (Long Questions)

(15)

1. Write on divisions of Horticulture
2. Explain planting systems of Horticultural crops with figure.
3. Write on layering methods of propagation.
4. What is protective cultivation? Types of Green House