

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc.(Hons.) Agriculture, Winter 2016 - 17 Examination

Semester: 1

Subject Code : 20108101

Subject Name: Production Technology of Fruit Corps

Date: 23-12-2016

Time: 2:00pm to 5:00pm

Total Marks: 60

Instructions

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section – A, section – B on separate answer sheets.

SECTION - A

Q.1 Fill in the blanks.**(10)**

1. Pomology means production of _____ crops.
2. Sericulture means rearing of _____.
3. Biennial plants complete their life cycle in _____ year.
4. The plants which do not shed their leaves are called as _____ plant.
5. Ideal temperature for growth and development of plant is _____ °C.
6. Planting distance of banana is _____ X _____ m.
7. HDP means _____.
8. Root developed from _____ part of seed.
9. Lower portion of the graft is known as _____.
10. Full form of IBA = _____.
11. Ripening hormone is _____.
12. Family of mango is _____.
13. Parents of Amrapali mango is _____ X _____.
14. Commercial variety of banana is _____.
15. Removal of male flower is known as _____.
16. In *mrig bahar* flowering takes place in _____ month.
17. Yield of papain _____ kg/ha.
18. Early variety of ber is _____ while late variety is _____.
19. Grape pruned in the month of _____ for flowering.
20. Commercial variety of pomegranate is _____.

Q.2 Match group A with group B.**(05)**

- | A | B |
|--------------------|---------------------|
| 1) Small Fruit | a) Halawi |
| 2) Deciduous | b) Thomson seedless |
| 3) Sucker | c) Apple colour |
| 4) Tuber | d) IBA |
| 5) Bulb | e) Snake plant |
| 6) Leaf cutting | f) Onion |
| 7) Rooting Hormone | g) Potato |
| 8) Guava | h) Banana |
| 9) Grape | i) Apple |
| 10) Date palm | j) Phalsa |

Q.3 Define the following. (Any ten)**(05)**

- | | |
|------------------|------------------|
| 1. Olericulture | 2. Perennial |
| 3. Intercropping | 4. Xylem |
| 5. Compatability | 6. Polyembryony |
| 7. Caprification | 8. Mulching |
| 9. Wrapping | 10. Horticulture |
| 11. Propagation | 12. Propping |

Q.4 Answer the following. (Any ten)

(10)

1. Write the Divisions of Horticulture.
2. Give the importance of Horticulture.
3. Write systems of planting
4. Give benefits of sexual propagation.
5. Give benefits of asexual propagation.
6. Enlist the types of budding.
7. Enlist the types of layering.
8. Give the systems of pruning:
9. Write the use of PGR's in Horticulture.
10. Write on Alternate bearing in mango with their control measures.
11. What is *Bahar* Treatment?
12. Write on seed treatment

SECTION - B

Q.1 Multiple choice type questions.

(10)

1. In which *bahar* the tree bear flowering in the month of October and fruiting in April – May.
a) Ambe-bahar
b) Mrig-bahar
c) Hasta-baha
d) Mastabahar
2. Dropping of fruits can be controlled by
a) GA₃
b) NAA
c) IAA
d) IBA
3. The early ripening variety of ber is
a) Kantha
b) Umran
c) Gola
d) Maherun
4. Male and female flowers born on separate plants is known as
a) Monocious
b) Dioceousc
c) Deciduous
d) None of the above
5. Sonpari hybrid variety of mango released from
a) ICAR
b) IARI
c) GAU
d) IIHR
6. When the plants are planted at 5 X 10 m distance than, How many plants are require in 2 hectare land?
a) 100
b) 200
c) 400
d) 500
7. Fruit cracking of pomegranate responsible for the deficiency of
a) Zinc
b) ferrous
c) Boron
d) sulphur
8. Apple colour is the variety of
a) Mango
b) Guava
c) Apple
d) Citrus
9. Pruning in phalsa done in the month of
a) September
b) October
c) November
d) Decemder
10. King of fruits
a) Apple
b) Banana
c) Mango
d) Guava
11. Poor mans fruits
a) Ber
b) Jamun
c) Phalsa
d) Bael
12. Papaya commercially propagated by
a) Seed
b) Grafting
c) Budding
d) Layering
13. Ber commercially propagated by
a) Ring budding
b) T budding
c) I budding
d) Grafting

14. Grand naine is a variety of
 a) Banana
 b) Papaya
 c) Mango
 d) Sapota
15. Best rootstock for sapota grafting is
 a) Rayan
 b) . Phalsa
 c) Citrus
 d) Mango
16. Aonla contain vitamin C(mg/100g pulp)
 a) 100
 b) 200
 c) 800
 d) 50
17. Which is the lower portion of the graft union?
 a) Stock
 b) Grafting
 c) Scion
 d) Budding
18. In which fruit crop suckers develop?
 a) Banana
 b) Both a & b
 c) Pineapple
 d) None of these
19. What is the meaning of goottee?
 a) Air-layering
 b) Stem cutting
 c) Patch budding
 d) Leaf cutting
20. Papaya belongs to the family
 a) Rosaceae
 b) Tiliaceae
 c) Caricaceae
 d) Rhemanaceae

Q.2 Give the sentence true or false.

(05)

1. Bee keeping is known as Apiculture.
2. Sapota is perennial plant.
3. Lime and pomegranate are sub-tropical.
4. Contour system of planting adopted in plain area
5. Planting materials should be healthy
6. Close botanical relation is not require in grafting
7. Ber propagated by ring budding
8. Art and science of cutting plant is known as training
9. Fruit size increased by GA₃
10. Cracking in fruit caused by boron deficiency

Q.3 Write short notes. (Any five)

(10)

1. Windbreaks
2. Softwood Grafting
3. Essential operation in banana
4. Intercropping
5. Mango malformation types and control measures
6. Fruit Cracking

Q.4 Differentiate the following. (Any five)

(05)

1. Tropical Zone Vs Subtropical Zone
2. Scarification Vs Stratification
3. Xylem Vs Phloem
4. Training Vs Pruning
5. Viability Vs Vitality
6. Annual Vs Biennial
7. Road Vs Path