

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc.(Hons.) Agriculture Summer 2021 - 22 Examination

Semester: 4

Date: 08/03/2022

Subject Code: 20108252

Time: 10:30 am to 1:00 pm

Subject Name: **Production Technology for Ornamental
Crops, MAP and Landscaping**

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. Lemongrass oil is used as a substitute for _____.
2. In _____ principle of landscaping, we can “create illusions” by using warm to cool colours to make garden area seem larger than it really is.
3. Crackerjack is the variety of _____ types of Marigold.
4. Arka Swarna is the variety of _____ flower crop.
5. Chrysanthemum is propagated by _____ method.
6. High yielding synthetic variety of Palmarosa grass is _____.
7. _____ is the most misused and mistaken principle in any landscape design.
8. Rose belongs to family _____.
9. _____ is the largest producer and exporter of Isabgol in the world?
10. Isabgol is grown as cash crop in _____.

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

1. Pusa Abhisek is the variety of _____ flowering crop

a) Rose	c) Tuberose
b) Marigold	d) Balsam
2. Kirti is the variety of _____ flower crop.

a) Marigold	c) Chrysanthemum
b) Barmasi	d) China aster
3. Ashwagandha is a _____ crop.

a) Medicinal	c) Ornamental
b) Aromatic	d) None
4. Chromosome no. of Ashwagandha is _____.

a)24	c)48
b)32	d)48
5. In Rose, deficiency of soil moisture can be noted by _____ symptoms.

a) Curved leaf	c) Leaf drop
b) Marginal browning of leaves	d) All of the above
6. How many Marigold species are found across the world?

a)39	c)69
b)56	d)60
7. African Marigold is first introduced in _____.

a) India	c) China
b) Europe	d) Spain
8. Citral is _____.

a) A Hexagon monoterpene	c) Both a and b
b) Cyclic monoterpene	d) None of the above
9. _____ is the planting season of Lemon grass.

a) May-June	c) August-September
b) Jan-Feb.	d) June-July
10. Which of the following lemon grass variety is suitable for irrigated condition?

a) Nima	c) CKP-25
b) Krishna	d) None of the above
11. Lemongrass oil is extracted by which method _____.

a) Supercritical method	c) Sub critical water extraction
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- b) Distillation method
d) Sonicator method
12. Plant growth regulator used to enhance the rooting of cuttings in plants is _____.
a) NAA
b) 2 4D
c) ABA
d) IBA
13. Botanical name of African Marigold is _____.
a) *Tagetes erecta*
b) *Tagetes minuta*
c) *Tagetes patula*
d) *Tagetes tenuifolia*
14. Botanically Isabgol is known as _____.
a) *Withenia somnifera*
b) *Cymbopogon flexuosus*
c) *Plantago ovate*
d) None of the above
15. First variety of hybrid perpetual group is _____.
a) Princess Helene
b) Buccaneer
c) La France
d) None of the above
16. Cross of Floribunda is _____.
a) Hybrid perpetual x Tea roses
b) Hybrid tea x Poliantha
c) Hybrid tea x Floribunda
d) None of the above
17. Marigold grown in _____ season.
a) winter
b) Rainy
c) Summer
d) All of the above
18. _____ is the native of *Dendranthema grandiflora*.
a) India
b) China
c) Europe
d) None of the above
19. Y2K is the variety of _____ flower crop.
a) Marigold
b) Chrysanthemum
c) Rose
d) Lemon grass
20. Oil of Palmarosa is also known as _____.
a) Rusa
b) Rosha
c) Rusha
d) All of the above

Q.2 Do as Directed.

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

(05)

1. De shooting
2. Pinching
3. Tree
4. Avenue tree
5. Specimen tree
6. Disbudding
7. Pruning

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

(05)

1. Write the full form of NAA.
2. What is the heart of garden?
3. Write down the family of Chrysanthemum.
4. Which chemical generally use in soil solarisation techniques?
5. Which Landscape principle is also known as "Ärt Principle"?
6. Write down the useful plant part of Lemon grass.
7. Which volatile compound present in Palmarosa grass?

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

(10)

1. Explain Pinching in chrysanthemum
2. Explain plant protection in Isabgol
3. Explain distillation method in lemongrass
4. Bending technique in rose
5. Explain Bud netting , Disbudding, pruning in rose
6. Difference between African and French marigold

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

(15)

1. Write down complete cultivation practices for Marigold
2. Write down complete cultivation practices for lemongrass
3. Write down complete cultivation practices for Rose
4. Write down complete cultivation practices for Chrysanthemum