

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

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

Semester: 4

Date: 02/04/2019

Subject Code: 20108252

Time: 10:30 to 01:00 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. Rose Botanical name _____ and family _____
2. Rose is propagated through the _____.
3. How many recognized and describe species available in rose _____.
4. CO₂ level of _____ is ideal for quality bloom production of rose.
5. Marigold is propagated through the _____.
6. Lemmongrass Botanical name _____ and Family _____.
7. Palmarosagrass Botanical name _____ and Family _____.
8. Chrysanthemum Botanical name _____ and Family _____.
9. Which volatile compound present in Palmarosa grass _____.
10. Which volatile compound present in Lemmon grass _____.

B. Multiple choice type questions. (Each of 0.5 mark)**(10)****1. How many temperature is required for rose cultivation in greenhouse condition ?**

- | | |
|-------------|-------------|
| a) 18-28° C | c) 10-28° C |
| b) 20-25° C | d) 15-18° C |

2. Which chemical generally use in soil solarization techniques ?

- | | |
|-----------------|-------------|
| a) Formeldehyde | c) Bavistin |
| b) Mancozab | d) M-45 |

3. Which is the favourable planting time of Rose ?

- | | |
|--------------|--------------|
| a) Mar- Apri | c) Jan – Feb |
| b) Jun- July | d) Oct- Nov |

4. Which is the ideal planting system in rose ?

- | | |
|---------------|-----------------|
| a) Single row | c) a and b both |
| b) Double row | d) Triple row |

5. Lemongrass propagated by

- | | |
|-------------|------------|
| a) Suckers | c) Cutting |
| b) Grafting | d) Slips |

6. Lemongrass oil is extracted by which method

- | | |
|----------------------------------|-----------------------|
| a) Supercritical method | c) Distilation method |
| b) Sub critical water extraction | d) Sonicator method |

7. Major cultural operation in marigold ?

- a) Pinching
- b) Bending
- c) Pruning
- d) Staking

8. Origin of marigold

- a) Mexico
- b) Japan
- c) India
- d) Mediterranean region

9. Disbudding and De-shooting techniques is improve the

- a) Quality
- b) a and c both
- c) Quantity
- d) non of above

10. Javahar Asegandha-20 is variety of which crop

- a) Citronella grass
- b) Ashwagandha
- c) Lemon grass
- d) Isabgol

11. Ashwagandha is also known as

- a) Winter cherry
- b) Punir
- c) Varahakarni
- d) All of above

12. Chrysanthemum propagated by

- a) Suckers
- b) Seed
- c) Terminal cutting
- d) All of above

13. Withanine and Somniferine type of alkaloids present in which crop

- a) Citronella grass
- b) Ashwagandha
- c) Lemon grass
- d) Isabgol

14. Useful part of ashwagandha

- a) Stem
- b) Root
- c) Leaves
- d) All of above

15. Family of Isabgol

- a) Plantaginaceae
- b) Solanaceae
- c) Rutaceae
- d) Rosaceae

16. Which part of Isabgol commercially use

- a) Husk
- b) Seed
- c) Leaves
- d) None of the above

17. Botanical name of French Marigold

- a) *Tagetes erecta*
- b) *Tagetes patula*
- c) *Tagetes minuta*
- d) *Tagetes tenuifolia*

18. Cultural operation in rose

- a) Bud netting
- b) Disbudding
- c) Bending
- d) All of above

19. Cross of Hybrid tea

- a) Hybrid perpetual x Tea roses
- b) Hybrid tea x Poliantha
- c) Hybrid tea x Floribunda
- d) Non of the above

20. Most common disease in rose

- a) Leaf spot
- b) Diaback
- c) Damping off
- d) Black spot

Q.2 Do as Directed.

A. Define the following. (Any five)

1. Landscaping
2. Bending
3. Pruning
4. Pinching
5. Greenhouse
6. Disbudding
7. Training

(05)

B. Answer the following. (Any five)

1. What is the use of rose flower ?
2. What is the use of Lemmon grass ?
3. Enlist different varieties of marigold ?
4. Enlist different varieties of Rose ?
5. Enlist different varieties of Chrysanthemum ?
6. Enlist different varieties of Lemmon grass ?

(05)

Q.3 Write short notes. (Any five)

(10)

1. Difference between African and French marigold ?
2. Explain Pinching in chrysanthemum ?

3. Important Tips and best practices for crop cultivation in chrysanthemum ?
4. What is the importance of rose flower ?
5. Bending techniques in rose

6. Planting of Rose

Q.4 Long Questions/Example (Attempt any one)

(15)

- 1) Write down complete cultivation practices for Marigold ?
- 2) Write down complete cultivation practices for lemon grass ?