

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**  
**B.Sc.(Hons.)Agriculture Winter 2019 - 20 Examination**

Semester: 4

Date: 28/11/2019

Subject Code: 20108252

Time: 2:00 pm to 4:30 pm

Subject Name: Production Technology for ornamental crops, MAP and Landscaping

Total Marks: 50

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

1. Which volatile compound present in Lemmon grass\_\_\_\_\_.
2. Lemmongrass Botanical name\_\_\_\_\_ and Family\_\_\_\_\_.
3. How many recognized and describe species available in rose\_\_\_\_\_.
4. Chrysanthemum Botanical name \_\_\_\_\_and Family\_\_\_\_\_.
5. Marigold is propagated through the\_\_\_\_\_.
6. Rose is propagated through the\_\_\_\_\_.
7. Palmarosagrass Botanical name \_\_\_\_\_and Family\_\_\_\_\_.
8. CO<sub>2</sub> level of \_\_\_\_\_is ideal for quality bloom production of rose.
9. Which volatile compound present in Palmarosa grass\_\_\_\_\_.
10. Rose Botanical name \_\_\_\_\_ and family\_\_\_\_\_

**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
  - b) 20-25°C
  - c) 10-28°C
  - d) 15-18°C
2. Which chemical generally use in soil solarization techniques ?
  - a) Formeldehyde
  - b) Mancozab
  - c) Bavistin
  - d) M-45
3. Which is the favourable planting time of Rose ?
  - a) Mar- Apri
  - b) Jun- July
  - c) Jan – Feb
  - d) Oct- Nov
4. Which is the ideal planting system in rose ?
  - a) Single row
  - b) Double row
  - c) a and b both
  - d) Triple row
5. Lemongrass propagated by
  - a) Suckers
  - b) Grafting
  - c) Cutting
  - d) Slips
6. Lemongrass oil is extracted by which method
  - a) Supercritical method
  - b) Sub critical water extraction
  - c) Distilation method
  - 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) Mediterrian 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 Asgandha-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)**

**(05)**

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

**B. Answer the following. (Any five)**

**(05)**

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

**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 lemmon grass ?
- 2) Write down complete cultivation practices for Marigold ?