

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc.(Hons.)Agriculture Summer 2022 - 23 Examination

Semester: 4th

Date: 11-03-2023

Subject Code: 20108252

Time: 10:30am to 1pm

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 is propagated through the _____.
2. CO₂ level of _____ is ideal for quality bloom production of rose.
3. Time of transplanting in marigold _____.
4. Red spider mite is major pest of _____ crop.
5. Flower colour of *Tagetes erecta* is _____.
6. Lemongrass is commonly known as _____.
7. Which volatile compound present in Palmarosa grass _____.
8. How many recognized and describe species available in rose _____.
9. _____ is the ideal planting system in rose.
10. Botanically chrysanthemum is known as _____.

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

1. Lemongrass is propagated by _____.
 - a) Seed
 - b) Grafting
 - c) Suckers
 - d) Cutting
2. Lemongrass oil is extracted by which method _____.
 - a) Supercritical method
 - b) Sub critical water extraction
 - c) Distillation method
 - d) Sonicator method
3. Plant growth regulator used to enhance the rooting of cuttings in chrysanthemum is _____.
 - a) NAA
 - b) 2 4D
 - c) ABA
 - d) IBA
4. Botanical name of French Marigold is _____.
 - a) *Tagetes erecta*
 - b) *Tagetes patula*
 - c) *Tagetes minuta*
 - d) *Tagetes tenuifolia*
5. Botanically Isabgol is known as _____.
 - a) *Withenia somnifera*
 - b) *Cymbopgon flexuosus*
 - c) *Plantago ovate*
 - d) None of the above
6. Yield of African marigold is _____.
 - a) 11 to 18 t/ha
 - b) 15 to 20 t/ha
 - c) 5 to 6 t/ha
 - d) 7 to 8 t /ha
7. Cross of Hybrid tea is _____.
 - a) Hybrid perpetual x Tea roses
 - b) Hybrid tea x Poliantha
 - c) Hybrid tea x Floribunda
 - d) None of the above
8. Marigold grown in _____ season.
 - a) winter
 - b) Summer
 - c) Rainy
 - d) All of the above
9. _____ is the native of *Dendranthema grandiflra*.
 - a) India
 - b) Europe
 - c) China
 - d) None of the above
10. Y2K is the variety of _____ flower crop.
 - a) Rose
 - b) Marigold
 - c) Lemon grass
 - d) Chrysanthemum
11. Oil of Palmarosa is also known as _____.
 - a) Rusa
 - b) Rosha
 - c) Rusha
 - d) All of the above

12. Lemongrass oil is used as a substitute for _____.
 - a) Cod liver oil
 - b) Castor oil
 - c) Groundnut oil
 - d) None of the above
13. In _____ principle of landscaping, we can “create illusions” by using warm to cool colours to make garden area seem larger than it really is.
 - a) Simplicity
 - b) Colour
 - c) Line
 - d) Natural Transition
14. Crackerjack is the variety of _____ types of Marigold.
 - a) African
 - b) Mexican
 - c) French
 - d) None of the above
15. Arka Swarna is the variety of _____ flower crop.
 - a) Isabgol
 - b) Citronella
 - c) Rose
 - d) Chrysanthemum
16. Chrysanthemum is propagated by _____ method.
 - a) Suckers
 - b) Cuttings
 - c) Micro propagation
 - d) All of the above
17. High yielding synthetic variety of Palmarosa grass is _____.
 - a) RRL
 - b) TRISHNA
 - c) IW 31244
 - d) All of the above
18. Lemon grass oil is a good source of _____.
 - a) Giraniol
 - b) Vitamin A
 - c) Citral
 - d) All of the above
19. Javahar Asgandh-20 is the variety of which crop?
 - a) Citronella grass
 - b) Ashwagandha
 - c) Lemon grass
 - d) Isabgol
20. _____ is the most misused and mistaken principle in any landscape design.
 - a) Unity
 - b) Colour
 - c) Proportion
 - d) Rep

Q.2 Do as Directed.

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

(05)

1. Formal garden
2. Informal garden
3. Deciduous tree
4. Staking
5. Deshooting
6. Greenhouse
7. Evergreen tree

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

(05)

1. Write down the medicinal uses of Isabgol.
2. Which is the first variety of Grandiflora group?
3. What do you mean by “Bio-aesthetic Planning”?
4. Write the uses of Tree in landscape / garden
5. What are the maturity indices of Ashwagandha plant at harvesting time?
6. What is the importance and uses of rose flower?
7. Enlist different varieties of Isabgol.

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

(10)

1. Difference between African and French marigold.
2. Write down important intercultural operation of Chrysanthemum.
3. Differentiate: formal and informal garden
4. Important Tips and best practices for crop cultivation in Chrysanthemum.
5. Differentiate: climbers and creepers
6. Write down the harvesting practices of Isabgol.

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

(15)

1. Write down the importance and scope of ornamental plants, Medicinal and Aromatic plants.
2. Write down the complete cultivation practices for Rose.
3. Explain different Principles of Landscaping.
4. Write down the landscape uses of trees.