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SEAT No. \_\_\_\_\_

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**Sardar Patel University**

**External Examination**  
**M.Sc. (Botany) - IV Semester**  
**PS04EBOT24: Horticulture**  
**26<sup>th</sup> March 2019, Tuesday**

**Time: 02:00 p.m. to 05:00 p.m.**

**Max Marks: 70**

**Note:** Figures to right side bracket indicate marks.

**Q1. Write the most appropriate option in your answer sheet for each question. [8]**

1. The growing and study of grapes or vines.  
A) Pomology  
B) Viticulture  
C) Horticulture  
D) Grapeculture  
E) None of Above
2. \_\_\_\_\_ is a process by which new organisms arise without production of seeds or spores.  
A) Asexual propagation  
B) Sexual propagation  
C) Apomixis  
D) Polyembryony  
E) None of Above
3. Propagation by \_\_\_\_\_ is the primary method of propagation used for tropical trees, especially fruit trees.  
A) Grafting  
B) Seed  
C) Layering  
D) Budding  
E) None of Above
4. The aim of grafting is to make clean cuts in the tissue of the two pieces so that the \_\_\_\_\_ tissues can be matched together.  
A) Cambium  
B) Xylem  
C) Phloem  
D) Root and stem  
E) None of Above
5. Fruits and vegetables are recognized as \_\_\_\_\_ food as they are necessary for the maintenance of human health.  
A) Balanced  
B) Hygienic  
C) Protective  
D) Body building  
E) None of Above
6. Among the below agencies which one deals with the Horticulture?  
A) ICMR  
B) CSIR  
C) ICAR  
D) AYUSH  
E) None of Above

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(P.T.O.)

7. Keeping in view the importance of horticulture sector, in 2005-06 the Government of India has launched a centrally sponsored scheme called.

- A) National Horticulture Mission      B) Food Security Bill  
C) Regional Horticultural Centers      D) State Horticulture Board  
E) None of Above

8. Which one of the following is a Climacteric type of fruit?

- A) Banana      B) Citrus  
C) Litchi      D) Grape  
E) None of Above

**Q2. Answer the following questions (Any seven):**

**[14]**

1. "The role of ethylene and abscisic acid is both positive and negative". Justify the statement.
2. Offer your brief explanation on "Horticulture differs from agronomy and forestry because....."
3. Differentiate between Olericulture and Floriculture.
4. Why Post harvest technology needs Inter-disciplinary and Multi-dimensional approach?
5. Differentiate between seed dormancy and coat dormancy.
6. With suitable explanation, explain in brief "Is horticulture is a science or an art?"
7. Enumerate the Environmental Factors Influencing the Growth of plants.
8. Why growth and development are necessary for plants to survive?
9. Comment upon the importance of green house in climate change situation.

**Q3. Answer the following questions:**

A Write explanatory note on division of horticulture.

**[6]**

B Explain how Agro-ecological regions and agro climatic regions differ from each other.

**[6]**

OR

B Present a note on the importance of fruits and vegetables in nutritional security in human nutrition.

**[6]**

**Q4. Answer the following questions:**

A Explaining the importance of seed propagation, discuss its advantages and disadvantages.

**[6]**

B Discuss the scope and importance (in terms of economy, production and employment generation) of horticulture in India.

**[6]**

OR

B Presenting the objectives of organic farming in Horticulture, write an explanatory note on Organic Horticulture

**[6]**

**Q5. Answer the following questions:**

- A** Explain about Maturity Indices and Harvesting practices for climacteric and non-climacteric fruits. [6]
- B** Presenting the types of plant growth hormones, discuss their importance and physiological role in Horticulture [6]

**OR**

- B** Including above ground and below ground components of plant environment, discuss the environmental requirements for plant growth. [6]

**Q6. Answer the following questions:**

- A** Describe in detail: factor affecting germination of seed. [6]
- B** Write importance micropropagation of plant with the importance of various growth regulators involved in growth and development of plant. [6]

**OR**

- B** Write a short note on "Training and Pruning" and it's Advantages. [6]

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