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CNIC Number: \_\_\_\_\_ Seat Number: \_\_\_\_\_  
Name: \_\_\_\_\_ Father's Name: \_\_\_\_\_  
Room Number: \_\_\_\_\_ Test Center: \_\_\_\_\_

**Note: It is the candidate's responsibility to return the question paper and answer sheet to the invigilator at the end of the test. Non-submission of the testing material may lead to disqualification.**

**IMPORTANT INSTRUCTIONS: Candidates must carefully follow the instructions provided below and those given by the instructor or announcer.**

1. Please compare and verify that the Seat Number, Your Name, and other information on the answer sheet and the sticker on your chair are correct. Also, write this information in the box above.
2. Use of calculators, mobile phones, or smart watches is strictly not allowed.
3. The total duration of the test is 1 hour and 30 minutes.
4. The exam is divided into nine sections as outlined below:

Section	Title	Marks	Total Questions	Time
<b>Multiple Choice Questions</b>				
1	Fundamentals of Horticulture	10	10	<b>1 hour and 30 minutes</b>
2	Crop Production & Management	15	15	
3	Post Harvest Technology	15	15	
4	Processing & Value Addition	10	10	
5	Pest & Disease Management	10	10	
6	Agricultural Marketing & Trade	10	10	
7	Climate Change & Sustainable Horticulture	10	10	
8	Recent Advances & Innovations	10	10	
9	General Agriculture Knowledge	10	10	

5. Each multiple-choice question has four options (A, B, C, and D), with only one correct answer. All responses must be marked by filling in the chosen option on the answer sheet following the (Correct filling) format provided below.

Correct Filling	Incorrect Filling
<input type="radio"/> <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

6. If the candidate selects more than one option for the same question or fills in the option incorrectly, the answer will be considered incorrect. Overwriting is not allowed; such answers will be marked as incorrect.
7. All questions are compulsory. There will be no negative marking.
8. When the instructor announces "STOP," the candidate must stop writing/solving the test.
9. Any evidence of cheating or non-compliance with instructions will result in disqualification from the test and legal action.
10. Making notes, copying questions, solving questions on any paper other than the question booklet and answer sheet, or removing the question booklet or answer sheet in its entirety or parts from the exam room is strictly prohibited and will lead to disqualification from the test and legal action.
11. Please return the exam materials (i.e., question booklet, answer sheets) to the invigilator before leaving the exam hall or room.
12. IBA reserves the right to revoke or modify any question or part of it.

Candidate's Signature: \_\_\_\_\_

**WAIT ..... Do not turn over this page until you are told to do so.**

**Written Test for**  
**Manager Agriproducts -**  
**PHDEC**

SAMPLE  
THE ACTUAL QUESTIONS MAY  
INSTRUCTIONS ON THIS SAMPLE PAPER,

CULTY LEVEL  
TUAL PAPER

## **Multiple Choice Questions**

### **Section 1: Fundamentals of Horticulture (Question No: 1 – 10)**

**Two sample questions. The actual paper will contain 10 questions.**

1. Which of these is NOT a subdivision of horticulture?
  - A. Pomology
  - B. Olericulture
  - C. Floriculture
  - D. Agronomy
  
2. 'Alternate bearing' in fruit trees is mainly influenced by:
  - A. Increased irrigation
  - B. Pruning and managing the crop load
  - C. Soil sterilization
  - D. Foliar feeding

### **Section 2: Crop Production & Management (Question No: 11 – 25)**

**Two sample questions. The actual paper will contain 15 questions.**

11. In precision agriculture and crop production, GPS is used for:
  - A. Forecasting the weather
  - B. Mapping the variability of the field
  - C. Identifying pests
  - D. Analyzing the market
  
12. Drip irrigation achieves the highest efficiency in water use by:
  - A. Submerging the entire field
  - B. Delivering water directly to the root zone in the form of droplets
  - C. Using aerial water spray irrigation methods
  - D. Rainwater Harvesting

### **Section 3: Post Harvest Technology (Question No: 26 – 40)**

**Two sample questions. The actual paper will contain 15 questions.**

26. The preservation of fruits and vegetables through cold storage is best explained by:
  - A. Increasing the rate of metabolism
  - B. Decreasing the level of metabolic processes
  - C. Eliminating all micro-organisms
  - D. Vacuum packing
  
27. Which of the following best describes Modified Atmosphere Packaging (MAP) and its effect on the shelf life of food products?
  - A. Increased oxygen levels
  - B. Creation of anaerobic conditions
  - C. Change internal gas composition
  - D. Addition of chemical preservatives

**Section 4: Processing & Value Addition (Question No: 41 – 50)**

**Two sample questions. The actual paper will contain 10 questions.**

41. What do you call the process that involves briefly boiling fruits and vegetables, then cooling them down?
- A. Pasteurization
  - B. Blanching
  - C. Sterilizing
  - D. Fermentation
42. What is the main component of osmotic dehydration of fruits?
- A. Submerging in a saline or sweetened water solution
  - B. Freezing and drying
  - C. Sun drying exclusively
  - D. Application of certain chemicals

**Section 5: Pest & Disease Management (Question No: 51 – 60)**

**Two sample questions. The actual paper will contain 10 questions.**

51. Biological control employs the use of:
- A. Natural enemies of pests
  - B. Only chemical pesticides
  - C. Genetic modification
  - D. Radiation
52. In pest management, the economic threshold level is defined as:
- A. Maximum pesticide dosage.
  - B. The pest population level at which control actions become economically justified.
  - C. Crop yield acceptable under a certain loss.
  - D. Investment in pest control.

**Section 6: Agricultural Marketing & Trade (Question No: 61 – 70)**

**Two sample questions. The actual paper will contain 10 questions.**

61. WTO agreements concerning agriculture are aimed at:
- A. Increasing trade barriers
  - B. Promoting fair trade practices
  - C. Regulating commodity prices
  - D. Controlling production
62. The concept of 'traceability' within food supply/value chains is defined as:
- A. Ability to track product movement from farm to consumer
  - B. Product pricing strategy
  - C. Quality certification
  - D. Packaging design

**Section 7: Climate Change & Sustainable Horticulture (Question No: 71 – 80)**

**Two sample questions. The actual paper will contain 10 questions.**

71. The main advantage of using drip irrigation in water-scarce areas is:
- A. Higher initial cost
  - B. Decreased water consumption
  - C. Increased weed growth
  - D. Soil erosion
72. Which of the following practices is used to increase carbon sequestration in agricultural soils?
- A. More chemical fertilizers
  - B. Conservation tillage
  - C. Deforestation
  - D. Mono-cropping

**Section 8: Recent Advances & Innovations (Question No: 81 – 90)**

**Two sample questions. The actual paper will contain 10 questions.**

81. Hydroponics is the practice of growing plants in:
- A. Soil
  - B. Soil with a nutrient solution
  - C. Only in open fields
  - D. Using traditional methods
82. Nanotechnology in agriculture can help with:
- A. Targeted use of agrichemicals
  - B. Expanding land for farming
  - C. Decreasing the variety of crops cultivated
  - D. Traditional farming methods

**Section 9: General Agriculture Knowledge (Question No: 91 – 100)**

**Two sample questions. The actual paper will contain 10 questions.**

91. Which subsector of agriculture has the largest share of Pakistan's agricultural GDP?
- A. Crops
  - B. Livestock
  - C. Forestry
  - D. Fisheries
92. The second SDG Target 2.4 is directed towards:
- A. Attaining elementary education for all
  - B. Maintaining farming systems that are sustainable
  - C. Equality in all sectors
  - D. Providing renewable energy

**{\*\*\*END\*\*\*}**