

ICAR (PG) 2025 – Horticulture

120 Questions with Options

Cleaned version: extraneous OCR/UI characters removed. Match-the-following questions are presented in separate List-I and List-II columns.

Question 1 |

Given below are two statements Statement 1 ; Soil pH more than 8 is not suitable for commercial cashew production
Statement II; Cashew ts a cross-pollinated crop

1. Both Statement (I) and Statement (II) are true
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true

Question 2 |

Which of the following method is used to propagate the jasmine and hydrangea plants?

1. Root cuttings
2. Semi hard wood cuttings
3. Leaf cuttings
4. Node cuttings

Question 3 |

Match List-I with List-II

List-I Guava variety	List-II Parents
(A) Allahabad Surkha	(I) Seedling Selection
(B) Hisar Surkha	(II) Apple Colour × Banarasi Surkha
(C) Arka Amulya	(III) Allahabad Safeda × Triploid
(D) Hisar Safeda	(IV) Allahabad Safeda × Seedless

Choose the correct answer from the options given below:

1. (A) - (I), (B)- (1), (C) - (HD), (DB) - (IV)
2. (A) - (1), (B)- (III), (C) - (I), (D) - (IV)
3. (A) - (I), (B) - (1), (C) - (IV), (D) - (tl)
4. (A) - (III), (B) - (IV), (C)- (1), (B) - (I)

Question 4 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) :
The carbohydrates have dual role in cutting Reason (R) : Until there is root initiation, carbohydrates enable a cutting to survive and in course of rooting carbohydrates are essential In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) is false_
4. (A) is false but (R) is true

Question 5 |

Given below are two statements: Statement (I): Tuberisation and early bulking are most crucial for nutrient absorption in potato Statement (II): Phosphorus by itself has a role to play in providing resistance against late blight in Potato in light of the above statements. choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

Question 6 |

'Hale's early' peach grafted onto 'Myrobalan B' plum rootstock is an example of

1. Localised compatibility
2. Translocatable incompatibility
3. Genetic incompatibility
4. Induced compatibility

Question 7 |

The origin of wound induced De-Novo adventitious roots in genera vitis is?

1. Phloem
2. Cambium
3. Medullary rays
4. callus

Question 8 |

Non-climacteric vegetables ripen best

1. After harvest with exposure to ethylene
2. While still attached to the plant
3. Under dark conditions
4. After dehydration

Question 9 |

Which ts a popular coconut variety of Assam?

1. Chandra Laksha
2. Laksha Ganga
3. Kamrupa
4. East Coast tall 641 (One

Question 10 |

In papaya pericarp of fruit composed of laticifers develops close to

1. Ovary walls
2. Placenta
3. Vascular bundles
4. Chloroplast

Question 11 |

Given below are two statements: Statement (I): Pineapple plants flower 10 -12 months after planting Statement (il): The fruits of variety Mauritius mature 11- 12 months after planting in light of the above statements.choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true.

Question 12 |

Chlorophyll pigments a and b are present in

1. Grana
2. Stroma
3. Chloroplast
4. Thylakoid membrane

Question 13 |

Make the correct sequence of steps involved in the micro-propagation of Rose genotypes? (A). Proliferation of shoots from axillary bud explants (B). Elongation of plantlets (C). Inoculation of axillary bud explants under laminar air flow cabinet. (D). Rhizogenesis of plantlets. (E). Primary and secondary hardening of plantlets. (F). Preparation and pre-treatment of axillary bud explants. Choose the correct answer from the options given below:

1. (A), (B), (D), (E), (C), (F)
2. (F), (D), (B), (E), (C), (A).
3. (F), (C), (A), (B), (D), (E).
4. (D), (E), (A), (C), (B), (F) Owl

Question 14 |

Match List-I with List-II

List-I Climbers	List-II Scientific name
(A) Coral vine	(I) Ficus repens
(B) Trumpet climber	(II) Petrea volubilis
(C) Indian Ivy	(III) Antigonon leptopus
(D) Purple wreath	(IV) Campsis grandiflora

Choose the correct answer from the options given below:

1. (A) - (IV), (B) -(III), (C)- (H1), (D- (1)
2. (A) - (I), (B)- (IN), (C) - (IV), (D}- (III)
3. (A) - (III), (B)- (IV), (C)-(1), (D) - (I)
4. (A) - (II), (B) - (1), (C) - (IV), (D) -(1I)

Question 15 |

The number of canes to be retained on each vine while pruning of grape variety, Bangalore Blue trained on Bower system and planted at a distance of 3m x6 m

1. 16–20
2. 30–40
3. 60–80
4. 85–95

Question 16 |

Based on fat percentage, arrange the following in descending order (A). Walnut (B). Almond (C). Cashewnut (D). Avocado Choose the correct answer from the options given below:

1. (A), (B), (C), (D)
2. (A), (C), (B), (D)
3. (B), (A), (D), (C)
4. (C), (B), (D), (A)

Question 17 |

Exclusion of light from a portion of stem for use as the cutting base is known as

1. Etiolation
2. Irradiance
3. Shading
4. Banding

Question 18 |

Match List-I with List-II

List-I Flower Crops	List-II Variety
(A) Carnation	(I) Sonar Bangla
(B) Chrysanthemum	(II) Lavender Lace
(C) Tuberose	(III) Pusa Arpita
(D) Marigold	(IV) Arka Nirantara

Choose the correct answer from the options given below:

1. (A)- (IV), (B) -(III), (C)- (1), (D)- (1)
2. (A)- (I), (B) (I), (C(I), (D)-(III)
3. (A)- (1), (B)- (II), (C)-(IV), (D)- (IH)
4. (A) - (III), (B) - (1), (C)- (IV), (D(H)

Question 19 |

Which of the following pulse crops falls under the category of inflated pod?

1. Cajanus cajan
2. Vigna radiata
3. Vigna mungo
4. Cicer arietinum

Question 20 |

| The breeding features in carrot as below (A). The male sterile lines can be maintained by crossing with any male fertile genotype (B). The male sterile lines have the genetic constitution SMSMs or SMSms (C). Carrot is an outbreeding species due to being self-incompatibility (D). Single cross hybrids are on an average less uniform than three way cross
Choose the correct answer from the options given below:

1. (A), (B) and (D) only
2. (A) and (B) only
3. (A), (C) and (D)
4. (B), (C) and (D) only.

Question 21 |

Which of the following mechanism promote cross pollination in flower crops?

1. Cleistogamy
2. Chasmogamy

3. Flowers open but stamens and stigma are hidden by other floral organs
4. Presence of self-incompatibility

Question 22 |

The differential growth response with greater response in the upper surface of an organ is known as

1. Epinasty
2. Hybernasty
3. Nastic
4. Tropism

Question 23 |

Which of the following variety/hybrid can produce the seeds in subtropical climate ?

1. Pusa Mukta
2. Pusa Cabbage 1
3. Pusa Ageti
4. Simradha Local

Question 24 |

The basic chromosome number of sweet potato is?

1. $x = 90$
2. $x = 30$
3. $x = 15$
4. $x = 20$

Question 25 |

Indicator plant for Exocortis viral disease in citrus?

1. Ranpur lime
2. Kagzi lime
3. West Indian lime
4. Sweet lime OI

Question 26 |

Number of banana plants per hectare under 1.5m x 1.5 m planted under a triangle system of planting?

1. 4440
2. 5120
3. 5550
4. 5650

Question 27 |

Which app has been developed by Department of Agriculture & Cooperation, Ministry of Agriculture and Farmers welfare?

1. Crop Doctor app
2. Kisan Suvidha app
3. Farm calculation app
4. Meghdoot weather app

Question 28 |

Shrubs planted at regular intervals to form a continuous screen is called as?

1. Edge
2. Arch
3. Hedge
4. Pergola

Question 29 |

Gold fleck is a major physiological disorder of

1. Tomato
2. Celery
3. Kale
4. Cauliflower

Question 30 |

Auxins promote flowering in pineapple because

1. Pineapple is a quantitative short day plant
2. Auxin enhances ethylene production
3. Produces severe epinasties and other responses
4. Auxin increases the rate of GA destruction

Question 31 |

Match List-I with List-II

List-I Common Name	List-II Scientific Name
(A) Spine gourd	(I) <i>Momordica charantia</i>
(B) Teasle gourd	(II) <i>Momordica dioica</i>
(C) Giant spine gourd	(III) <i>Momordica subangulata</i> ssp. <i>renigera</i>
(D) Bitter gourd	(IV) <i>Momordica cochinchinensis</i>

Choose the correct answer from the options given below:

1. (A) - (IV), (B) - (II), (C) - (ID), (B) - (1)
2. (A) - (II), (B) - (III), (C) - (IV), (DB) - (1)
3. (A) - (III), (B) - (I), (C) - (IV), (B) - (1)
4. (A) - (III), (B) - (IV), (C)- (1), (B) - (1)

Question 32 |

Which of the following is the most common weed of lawn that is difficult to eradicate?

1. *Chenopodium album*
2. *Phalaris minor*
3. *Daucus carota*
4. *Cyperus rotundus*

Question 33 |

Which of the following is considered as the progenitor species of Loofah gourds ?

1. *Luffa acutangula*
2. *Luffa echinata*
3. *Luffa cylindrica*

4. *Luffa graveolens* oi

Question 34 |

Which of the following line in onion has the true genetic constitution Nmsms ?

1. A line
2. B line
3. C line
4. D line

Question 35 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Bermuda grass, a lawn grass is a fast-growing and commercially used for the development of lawns, golf courses and athletic fields in India. Reason (R) : Bermuda grass has fast growth due to the presence of tillers and fibrous shallow root system. In light of the above statements, choose the most appropriate answer from the options given below.

1. Both (A) and (R) are correct and (R) is the correct explanation of (A)
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
3. (A) is correct but (R) is not correct
4. (A) is not correct but (R) is correct

Question 36 |

Calculate the amount of water for scheduling irrigation in grapes at IW/CPE ratio of 1 with 6 cm of CPE?

1. 4 cm
2. 6 cm
3. 8 cm
4. 10 cm

Question 37 |

Cultivar "Udayam" in banana is a clonal selection of?

1. Bombay green
2. Pidi Monthan
3. Karpooravally
4. High Gate

Question 38 |

Which of the following rulers has established the Sikander Bagh in Lucknow, Uttar Pradesh?

1. Firoz Tughlaq
2. Babur
3. Nawab Wajid Ali Shah
4. Shah Jahan

Question 39 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Cucurbit does not suffer much from inbreeding depression Reason (R): Andro-monoecious and hermaphrodite sex forms favor a higher degree of natural self-pollination In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) is false

4. (A) is false but (R) is true

Question 40 |

Match List-I with List-II

List-I Peach variety	List-II Flesh colour
(A) Sharbati	(I) Yellow
(B) Parbhat	(II) Greenish white
(C) Spring Time	(III) White
(D) Harrow Blood	(IV) Blood flesh

Choose the correct answer from the options given below:

1. (A) - (I), (B)- (1), (C) - (IID), (B) - (IV)
2. (A) - (1), (B) - (III), (C) - (I), (D) - (IV)
3. (A) - (III), (B) - (II), (C)- (1), (B) - (IV)
4. (A) - (III), (B) - (IV), (C)- (1), (B) - (UI)

Question 41 |

Male and female plants of spinach are identified on the basis of

1. High leaf sugars, chlorophyll and carotenoids in female plants
2. High leaf sugars, chlorophyll and carotenoids in male plants
3. Red venal pigmentation in male plants
4. Downward cupping in female leaves

Question 42 |

Given below are two statements: Statement (I): The presence of calcium carbonate layer around the root zone of citrus favours plant growth Statement (II): It enhances the availability of micronutrients. In light of the above statements In light of the above statements. choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true

Question 43 |

Which one of the following is true for the grape cultivar Himrod? (A). Cross between Ontario x Sultanina (B). Yellow green berries (C). Vigorous vine and heavy yield (D). Good keeping and shipping quality Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only. oul

Question 44 |

The peduncle size during the export of mango should not be more than

1. 0.5cm
2. 1.0.cm
3. 1.5.0cm
4. 20cm

Question 45 |

Which of the following cultivars belongs to the cut standard type of chrysanthemum? (A). Pusa Centenary (B). Sadbhavana (C). Snow Ball (D). Thai Chen Queen Choose the correct answer from the options given below:

1. (A), (C) and (D) only.
2. (A), (B) and (D) only
3. (B) and (C) only.
4. (B) and (D) only.

Question 46 |

Choose correct descending order of vitamin-C content in different parts of capsicum

1. Seeds > Flesh > Placenta
2. Placenta > Seed > Flesh
3. Flesh > Placenta > Seeds
4. Flesh > Seeds > Placenta Col

Question 47 |

Which of the following Is called as King of Spices?

1. Clove
2. Black Pepper
3. Cardamom
4. Allspices

Question 48 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) = Jonathan spot is a physiological disorder of apple Reason (R) = Calcium deficiency is the sole cause of this disease In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) Is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) Is false
4. (A) is false but (R) is true

Question 49 |

Which of the following ornamental plants are suitable for a water garden? (A). Aponogeton distachyus (B). Gypsophilla elegans (C). Nelumbo /utea (D). Trapa natans Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (B) and (C) only.
3. (A), (C) and (D) only.
4. (B) and (D) only.

Question 50 |

Match List-I with List-II

List-I Cultivar group of hot chillies	List-II Characteristics
(A) Jalapeno	(I) Fruits small, thin, puffy walled
(B) Ancho	(II) Fruits small, almost cylindrical with round ends, thick walled
(C) New Mexican	(III) Large heart-shaped, thin-walled fruits

List-I Cultivar group of hot chillies	List-II Characteristics
(D) Habanero	(IV) Long slender with a tapered end, thin-walled

Choose the correct answer from the options given below:

1. (A) - (II), (B) - (1), (C) - (HID), (DB) - (IV)
2. (A) - (IV), (B) - (II), (C) - (II), (D) - (1)
3. (A) - (III), (B) - (II), (C)- (1), (D) - (IV)
4. (A) - (II), (B) - (III), (C) - (IV), (DB) - (1)

Question 51 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A) : Blue or cyan LEDs (400 and 500 nm) can result in 20-30% more photosynthesis than orange and red lights (600 to 630 nm) Reason (R) : Coloured LED lights are used for increasing the photosynthetic efficiency of plants. In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) Is true but (R) is false.
4. (A) is false but (R) is true

Question 52 |

Facts about papaya flowering (A). Polygamous with various sex forms (B). Commonly found sex forms are pistillate, staminate and hermaphrodite (C). The Pistillate is very unstable, and sex reversal is common (D). Male flowers are devoid of the functional pistil Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only.

Question 53 |

Given below are two statements: Statement (I):In pineapple fruit weight increases with increasing number of suckers per plant Statement (II):Whereas an increased number of slips delay fruit maturity in light of the above statements. choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true.

Question 54 |

Match List-I with List-II

List-I Black pepper shoots	List-II Characteristics / growth habit
(A) Runner Shoots	(I) Main stem top shoot
(B) Plagiotropes	(II) Produced from the basal portion of main stem
(C) Orthotropes	(III) Hanging shoots
(D) Geotropes	(IV) Produced from the nodes of the main stem

Choose the correct answer from the options given below:

1. (A) - (I), (B)- (1), (C) - (HI), (D) - (IV)

2. (A) - (II), (B) - (1), (C) - (IV), (D) - (HI)
3. (A) - (II), (B) - (IV), (C) - (1), (D) - (I)
4. (A) - (III), (B) - (IV), (C)- (1), (B) - (HN)

Question 55 |

A novel plant breeding technique designed to directly produce parental lines for any heterozygous plant is

1. Reverse breeding
2. Forward breeding
3. Molecular breeding
4. TILLING

Question 56 |

Match mango species List-I with List-II according to their potential use in mango breeding.

List-I Mango species	List-II Characteristics
(A) <i>Mangifera laurina</i>	(I) Prolific bearer, small black sweet fruit
(B) <i>Mangifera magnifica</i>	(II) Tolerance to hopper
(C) <i>Mangifera casturi</i>	(III) Wet climate and anthracnose resistance
(D) <i>Mangifera altissima</i>	(IV) Free from fiber

Choose the correct answer from the options given below:

1. (A) - (1), (B) - (III), (C) - (I), (D) - (IV)
2. (A) - (II), (B) - (IV), (C) - (1), (D) - (I)
3. (A) - (IV), (B) - (II), (C) - (III), (D) - (1)
4. (A) - (I), (B) - (1), (C) - (IV), (D) - (I)

Question 57 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A) :Fruit softens during ripening Reason (R): There is breakdown of pectic substances in the middle lamina causing poor cell to cell cohesion, thereby softening of fruit In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) is false
4. (A) is false but (R) is true

Question 58 |

The laticiferous canals meant for storage of fluid in mango is called

1. Core
2. Sacs
3. Pith
4. Chenp

Question 59 |

Calculate the quantity of DAP (18-20-0) and Urea (46%) to full fill the recommended dose (80 N-20 P-0 K) in a vegetable crop?

1. DAP (100 kg) and Urea (135 kg)
2. DAP (120 kg) and Urea (150 kg)

3. DAP (130 kg) and Urea (92 kg)
4. DAP (90 kg) and Urea (105 kg)

Question 60 |

Ideal sucker size for planting of pineapple?

1. 150g
2. 300g
3. 450g
4. 600g

Question 61 |

Which of the following is NOT a heat-tolerant variety of Potato?

1. Kufri Bhaskar
2. Kufri Kiran
3. Kufri Lima
4. Kufri Sherpa

Question 62 |

Which vitamin is spinach particularly rich in?

1. Vitamin C
2. Vitamin A
3. Vitamin D
4. Vitamin K

Question 63 |

Which among the following is an intergeneric hybrid of grapefruit and trifoliate orange?

1. Citrumelos
2. Citranges
3. Alemow
4. Smooth Flat Seville

Question 64 |

The variety "Princess 77" belongs to which of the following turf/lawn grasses?

1. Poa pratensi
2. Agrostis palustris
3. Cynodon dactylon
4. Lolium perenne

Question 65 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A) - Turmeric is propagated vegetatively through rhizome Reason (R): For commercial cultivation, both mother and finger rhizomes are used In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) is false.
4. (A) is false but (R) is true

Question 66 |

The average per day water requirement for rice is about

1. 2 mm
2. 5 mm
3. 10 mm
4. 30 mm

Question 67 |

Which renowned Indian horticulturist passed away during March 2025?

1. Dr Kirti Singh
2. Dr B. S. Chundawat
3. Dr KL. Chadha
4. Dr KV. Peter iO? 2

Question 68 |

Sequence the cashew varieties according to their parentage. (A) Ansur-1 × 56; (B) Midnapore Red × Vengurla 56; (C) Vengurla 56 × Ansur 1; (D) Vengurla 3 × M 10/4.

1. Vengurla 6 – Vengurla 7 – Vengurla 4 – Vengurla 3
2. Vengurla 3 – Vengurla 4 – Vengurla 6 – Vengurla 7
3. Vengurla 7 – Vengurla 4 – Vengurla 3 – Vengurla 6
4. Vengurla 4 – Vengurla 3 – Vengurla 6 – Vengurla 7

Question 69 |

The National Horticulture Board (NHB) was set up during the year?

1. 1980
2. 1984
3. 1990
4. 1995

Question 70 |

Given below are two statements: Statement (I): Self-incompatibility was first reported by Koelreuter and in this case, pollen grains fail to germinate on the stigma of the flower that produced them. Statement (II): In primula, pin flowers have long styles and short stamens, while thrum flowers have short styles and long stamens. In light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

Question 71 |

Given below are two statements Statement (I): Doubled haploid lines are always genetically identical to their parent plants in cauliflower Statement (II): Failure of pollen germination on stigma is a post-syngamic barrier in cole crops in light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

Question 72 |

Which one of the following is used to find out the central tendency of skewed distribution?

1. Mean
2. Average
3. Median
4. Mode

Question 73 |

Given below are two statements: Statement (I): The trees like *Araucaria cookii*, *Callistemon lanceolatus* and *Salix babylonica* can be used as specimen trees in any garden Statement (II): The trees such as *Magnolia grandiflora*, *Michelia champaka* and *Millingtonia hortensis* do not have fragrant flowers. In light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

Question 74 |

Arrange the following steps of pure line selection method of self-pollinated flower crops in correct sequence? (A). Selection of plants on the basis of their phenotype (B). Conducting preliminary yield trials and rejecting inferior progenies. (C). Selection of best progenies over several locations. (D). Growing individual plant progenies and rejection of undesirable progenies. (E). Conducting replicated yield trials in several locations and rejecting inferior progenies (F_) Multiplication of seeds of best progenies.

1. (C), (D), (E), (F), (A), (B)
2. (A), (D), (B), (E), (C), (F).
3. (A), (D), (E), (B), (F), (C).
4. (C), (B), (E), (A), (F), (D) Ci

Question 75 |

Which propagation technique should be adopted in tissue culture to obtain virus free 'clean plant'

1. Microcutting
2. Microbudding
3. Micrografting
4. Microlayering

Question 76 |

Given below are two statements: Statement (I): Zn deficiency of apple is commonly called "Rosette" Statement (II): Rosette usually first appears on the summer growth in light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true

Question 77 |

Which of the following is NOT a variety of Fenugreek?

1. Hisar Sonali
2. Hisar Suvarna

3. Hisar Mukta
4. Hisar Swarup or

Question 78 |

Given below are two statements: Statement (I): The annual or seasonal flower crops such as sweet pea, lupin, require an isolation distance of more than 400 meter for pure seed production Statement (II): The annual or seasonal flower crops such as blue corn flowers, blue larkspur, ageratum, can be used to develop blue monochromatic colour scheme in the gardens. In light of the above statements, choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true

Question 79 |

Establishment of "seed garden" to produce superior hybrids and cultivars is done in

1. Pineapple
2. Cashewnut
3. Coconut
4. Plantain

Question 80 |

Facts about PM Kisan (A) PM Kisan is a Central Sector scheme with 100% funding from Government of India: (B) It has become operational from 1.12. 2018. (C) Definition of family for the scheme is husband, wife and minor children (D) Support of 12,000/- per year in three equal installments is provided to all land holding farmer families Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only.

Question 81 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A) - Sand pear is a variety of pear and most suitable for plains Reason (R): It requires only 159 hours of chilling and can also withstand high temperature and hot winds during summer In light of the above statements, choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
3. (A) is true but (R) is false
4. (A) is false but (R) is true

Question 82 |

Calculate the number of plants per hectare under Hexagonal system if the plant to plant distance is 10 m?

1. 75
2. 100
3. 115
4. 125

Question 83 |

Match List-I with List-II

List-I Nutrient	List-II Deficiency symptoms
(A) N	(I) Strip chlorosis, mainly between veins, while veins remain green
(B) P	(II) Leaves with brown necrotic margins, wilted appearance of plant
(C) K	(III) Reddish discoloration on green leaves or stalks
(D) Mg	(IV) Chlorosis starting from leaf tips; later leaves turn yellowish-brown

Choose the correct answer from the options given below:

1. (A) - (I), (B)- (1), (C) - (HID), (DB) - (IV)
2. (A) - (IV), (B) - (III), (C) - (1), (BD) - (1)
3. (A) - (II), (B) - (III), (C) - (IV), (B) - ()
4. (A) - (III), (B)- (IV), (C)- (1), (B) - (IN)

Question 84 |

| The simplest measurement of dispersion is

1. Mean
2. Median
3. Mode
4. Range

Question 85 |

Which of the following vegetable seed production model is in use in vegetatively propagated crops like potato, garlic, sweet potato etc. ?

1. Two generation model
2. Three generation model
3. Four generation model
4. Five generation model

Question 86 |

The architectural features, namely baradari and running water, belong to which of the following gardens?

1. Japanese Garden
2. Mughal Garden
3. English Garden
4. Wild garden GI

Question 87 |

Which of the following architect has given the concept of French style garden?

1. Le Notre
2. Norman Borlaug
3. Claude Lorrain
4. G. Jekyll

Question 88 |

Which of the following vegetable crop is not removing higher quantity of nutrients from the soil ?

1. Sweet Potato
2. Spinach
3. Cauliflower
4. Cucumber

Question 89 |

Ad d a GET ITON Molecular markers have been widely used in (A). Barcoding of species (B).Genetic finger printing (C). Identification of duplicates (D).Selecting core collections Choose the correct answer from the options given below:

1. (A), (B) and (C) only.
2. (A), (B) and (D) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only. on

Question 90 |

Frost damage occurs in which of the following stages of gladiolus? (A). Immediately after planting (B). Corms harvesting stage (C). 7-leaf stage when spikes start emerging (D). Fully emerged spikes Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (B) and (C) only.
3. (B), (C) and (D) only.
4. (A) and (C) only.

Question 91 |

Which of the following orchids belong to sympodial types? (A). Vanda (B). Arachnis (C). Cymbidium (D). Cattleya Choose the correct answer from the options given below:

1. (A), (B) and (C) only.
2. (B) and (C) only.
3. (C) and (D) only.
4. (A), (B) and (D) only

Question 92 |

Anearly homozygous line developed by continued inbreeding usually selfing accompanied by selection is known as

1. Pure line
2. Inbred line
3. Fa line
4. Recombinant line

Question 93 |

In which of the following method a large number of plants of similar phenotype are selected and their seeds are mixed together to constitute the new variety?

1. Pedigree selection
2. Mass selection
3. Pure line selection
4. Bulk method

Question 94 |

Which of the following process Is often practiced to overcome lanky seedlings due to lack of proper or uniform sunlight under protected cultivation?

1. Fertigation
2. Seed Dressing
3. Pillowing
4. Precision Seeding oO.

Question 95 |

Arrange the plum varieties on the basis of ripening (early to late) (A). Red Beaut (B). Santa Rosa (C). Mariposa (D). Frontier Choose the correct answer from the options given below-

1. (A), (B), (C), (D).
2. (A), (B), (D), (C).
3. (B), (A), (D), (C)
4. (C), (B), (D), (A)

Question 96 |

Heterosis can be easily fixable in which of the following?

1. Cross-pollinated crops
2. Vegetatively propagated crops
3. Self-pollinated crops
4. Often cross-pollinated crops

Question 97 |

Which one of the following fruit trees has hermaphrodite flowers? (A). Manga (B). Ber (C). Coconut (D). Guava Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only.

Question 98 |

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Glucosinolates have been proposed as chemical markers in chemotaxonomy of Brassica Vegetables. Reason (R): The total amounts and profile of Glucosinolates vary among the Brassica crops. In light of the above statements. choose the most appropriate answer from the options given below

1. Both (A) and (R) are correct and (R) is the correct explanation of (A).
2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
3. (A) is correct but (R) is not correct.
4. (A) is not correct but (R) is correct

Question 99 |

Ad d a GET ITON Given below are two statements: Statement (I): SRK (S-locus receptor kinase) is the male determinant of sporophytic self- incompatibility in Brassica oleracea. Statement (II): Pollen recognition and rejection mechanism is explained for sporophytic self incompatibility. In light of the above statements. choose the most appropriate answer from the options given below.

1. Both Statement (I) and Statement (II) are true
2. Both Statement (I) and Statement (II) are false
3. Statement (I) is true but Statement (II) is false
4. Statement (I) is false but Statement (II) is true

Question 100 |

Sequence the parentage of guava varieties (A) Allahabad Safeda x Triploid (B) Kamsari = Purple local (C) Allahabad Safeda x Kohir (D) Pant Prabhat = Arka Kiran

1. Arka Kiran - Arka Amulya - Pusa Aarushi - Safeda Jam
2. Safeda Jam - Arka Amulya - Pusa Aarushi - Arka Kiran
3. Safeda Jam - Arka Kiran - Arka Amulya - Pusa
4. Arka Amulya - Arka Kiran - Safeda Jam - Pusa Aarushi

Question 101 |

Match List-I with List-II

List-I Mango rootstock	List-II Resistance against
(A) Bappakai	(I) Water logging
(B) Mangifera laurina	(II) Low temperature
(C) Mangifera sylvatica	(III) Anthracnose
(D) Mangifera andamanica	(IV) Salinity

Choose the correct answer from the options given below:

1. (A) - (I), (B)- (1), (C) - (HID), (B) - (IV)
2. (A) - (IV), (B) - (II), (C)- (1), (DB) - (1)
3. (A) - (1), (B) - (1), (C) - (IV), (D) - (tl)
4. (A) - (III), (B) - (IV), (C)- (1), (B) - (HN)

Question 102 |

Which of the following is NOT a long fruited variety of Brinjal?

1. Pusa Bhairav
2. Pant Samrat
3. Punjab Barsati
4. Azad Kranti (Ov)

Question 103 |

Which of the following trees is associated with the seal from the Mohan-jo-Daro civilization?

1. Michelia champaca
2. Ficus religiosa
3. Shorea robusta
4. Terminalia arjuna

Question 104 |

Recently, the Govt of India set up the National Turmeric Board, where its headquarter is located?

1. Berhampur, Odisha
2. Baruasagar, Uttar Pradesh
3. East Godavari, Andhra Pradesh
4. Nizamabad, Telangana

Question 105 |

Few statements are given for techniques and tools used in vegetable crop improvement (A). Androgenesis is most commonly used in Onion for haploid production (B). CENH 3 is an emerging player of haploid induction technology (C). A high cytokinin to auxin ratio is typically required to induce shoot organogenesis (D). RAPD is a co-dominant molecular

marker Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (B) and (D) only.
3. (A), (B), (C) and (D)
4. (B) and (C) only.

Question 106 |

Match genetic constitution of papaya List-I with List-II

List-I Genetic Constitution	List-II Characteristics
(A) Mq8Rm	(I) Sex reversing heterozygous male plant
(B) M4'm	(II) Sex reversing homozygous male plant
(C) My% _m	(III) Hermaphrodite plant
(D) Mam	(IV) Pure male plant

Choose the correct answer from the options given below:

1. (A)-(I), (B)-(I), (C)-(I), (D)-(IV)
2. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
3. (A)-(IV), (B)-(II), (C)-(I), (D)-(I)
4. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Question 107 |

For control of pod borer in chick pea, sex pheromone trap is installed at

1. Flower bud initiation stage
2. Early pod development stage
3. Late bud development stage
4. Root nodulation stage

Question 108 |

Soil structure is related to (A). Mutual arrangement of particles in soil (B). Orientation of particles in the soil (C). Organisation of particles in the soil (D). Size of the particles in the soil Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A), (B) and (C) only.
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

Question 109 |

Pinching, a special horticultural practice, is performed in which of the following flower crops? A). Marigold (B). Rose (C). Gladiolus (D). Carnation Choose the correct answer from the options given below:

1. (A), (B) and (C) only
2. (A) and (D) only.
3. (B) and (C) only.
4. (B), (C) and (D) only.

Question 110 |

Mutation which occurs in one layer and along the side of the apex is known as

1. Mericlinal Chimera

2. Sectorial chimera
3. Periclinal chimera
4. Segmented chimera

Question 111 |

The UN General Assembly has adopted the year 2025 as the international year of?

1. Cooperatives
2. Climate resilience
3. Women Empowerment
4. Health and Hygiene

Question 112 |

Which of the following rootstock of apple has originated as chance seedling?

1. Malling 7a
2. Malling 9
3. Malling 27
4. MM 111

Question 113 |

Given below are two statements, one is labeled as Assertion (A) and other is labelled as Reason (R) (A) Leaf tearing is considered beneficial for banana plantation at higher temperature ($>47.5^{\circ}\text{C}$) (R) Splitted leaves reduces photosynthetic efficiency and are subjected to minimum heat damage. In light of the above statements. choose the most appropriate answer from the options given below

1. Both (A) and (R) are correct and (R) is the correct explanation of (A)
2. Both (A) and (R) are correct but (R) is not the correct explanation of (A)
3. (A) is correct but (R) is not correct
4. (A) is not correct but (R) is correct

Question 114 |

Which short durated Basmati rice matures within 115-120 days?

1. Pusa Basmati-1509
2. Pusa Basmati-1401
3. Pusa Basmati-1886
4. Pusa Basmati-1728

Question 115 |

Which of the following physiological disorder is characterized as emergence of small green leaf tips from in between segments or prefloral buds of curds in cauliflower ?

1. Bracting
2. Browning
3. Fuzziness
4. Riceyness

Question 116 |

Which of the following species/ varieties are used as root-stock for propagating roses in India? (A). Raktagandha (B). Rosa multiflora (C). Rosa bourboniana (D). Rosa canina Choose the correct answer from the options given below:

1. (A), (B) and (D) only.
2. (A) and (D) only.

3. (B) and (C) only.
4. (B), (C) and (D) only.

Question 117 |

Banana with 10 chromosome genome are the characteristics of

1. Eumusa and Rhodoclamys
2. Callimusa and Australimusa
3. Callimusa and Eumusa
4. Australimusa and Rhodoclamys

Question 118 |

Given below are two statements, one is labeled as Assertion (A) and other is labelled as Reason (R) (A): For commercial cultivation of pineapple, High density planting is recommended (R): At wider spacing, light is not fully utilized by leaves and part of it droop down. In light of the above statements, choose the most appropriate answer from the options given below

1. Both (A) and (R) are correct and (R) is the correct explanation of (A)
2. Both (A) and (R) are correct but (R) is not the correct explanation of (A)
3. (A) Is correct but (R) is not correct
4. (A) is not correct but (R) is correct or O'2

Question 119 |

Aceria guerreronis is major pest of

1. Cocos nucifera
2. Anacardium occidentale
3. Curcuma longa
4. Piper nigrum

Question 120 |

Match List-I with List-II

List-I Breeding method	List-II Its application
(A) Marker-assisted selection	(I) Breeding method used to combine desirable traits from two different species where pre-zygotic barriers exist
(B) Embryo rescue	(II) Process of selecting and interbreeding plants over several generations
(C) Somatic hybridization	(III) Technique used to succeed in interspecific crosses
(D) Recurrent selection	(IV) Method involving selection based on molecular breeding

Choose the correct answer from the options given below:

1. (A) - (1), (B) - (I), (C) - (UI), (B)- (IV)
2. (A) - (II), (B) - (III), (C) - (1), (D)= (IV)
3. (A) - (IV), (B) - (III), (C) - (1), (D) - (H)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (HI)