

# National Testing Agency

<b>Question Paper Name :</b>	Vegetable Science and Olericulture 17th September Shift 2
<b>Subject Name :</b>	Vegetable Science and Olericulture
<b>Creation Date :</b>	2021-09-17 18:54:23
<b>Duration :</b>	120
<b>Total Marks :</b>	480
<b>Display Marks:</b>	Yes

## Vegetable Science and Olericulture

<b>Group Number :</b>	1
<b>Group Id :</b>	19088986
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A: General Knowledge

<b>Section Id :</b>	190889182
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory

<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889222
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 1908899622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

**Options :**

- 19088938381. 1
- 19088938382. 2
- 19088938383. 3
- 19088938384. 4

**Question Number : 2 Question Id : 1908899623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

**Options :**

- 19088938385. 1
- 19088938386. 2
- 19088938387. 3
- 19088938388. 4

**Question Number : 3 Question Id : 1908899624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Yellow vein mosaic is the viral disease of which of the following plants?

- 1. Ladyfinger
- 2. Papaya
- 3. Sugarcane
- 4. Banana

**Options :**

- 19088938389. 1
- 19088938390. 2
- 19088938391. 3
- 19088938392. 4

**Question Number : 4 Question Id : 1908899625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following organ(s) is affected by Mumps disease?

- 1. Entire body
- 2. Skin
- 3. Eye
- 4. Parotid

**Options :**

- 19088938393. 1
- 19088938394. 2
- 19088938395. 3



19088938396. 4

**Question Number : 5 Question Id : 1908899626 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the chemical name of vitamin B<sub>2</sub>?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

**Options :**

19088938397. 1

19088938398. 2

19088938399. 3

19088938400. 4

**Question Number : 6 Question Id : 1908899627 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

**Options :**

19088938401. 1

19088938402. 2

19088938403. 3

19088938404. 4

**Question Number : 7 Question Id : 1908899628 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**



**Correct Marks : 4 Wrong Marks : 1**

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

**Options :**

19088938405. 1

19088938406. 2

19088938407. 3

19088938408. 4

**Question Number : 8 Question Id : 1908899629 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

**Options :**

19088938409. 1

19088938410. 2

19088938411. 3

19088938412. 4

**Question Number : 9 Question Id : 1908899630 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

**Options :**

19088938413. 1

19088938414. 2

19088938415. 3

19088938416. 4

**Question Number : 10 Question Id : 1908899631 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is considered as the "Magna Carta of England Education in India"?

1. Hunter education commission
2. Lord Macaulay's Minute
3. Wood's Despatch
4. Thomas Babington Macaulay

**Options :**

19088938417. 1

19088938418. 2

19088938419. 3

19088938420. 4

**Question Number : 11 Question Id : 1908899632 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

**Options :**

19088938421. 1

19088938422. 2

19088938423. 3

19088938424. 4

**Question Number : 12 Question Id : 1908899633 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

**Options :**

19088938425. 1

19088938426. 2

19088938427. 3

19088938428. 4

**Question Number : 13 Question Id : 1908899634 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

**Options :**

19088938429. 1

19088938430. 2

19088938431. 3

19088938432. 4

**Question Number : 14 Question Id : 1908899635 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

**Options :**

19088938433. 1

19088938434. 2

19088938435. 3

19088938436. 4

**Question Number : 15 Question Id : 1908899636 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

**Options :**

19088938437. 1

19088938438. 2

19088938439. 3

19088938440. 4

**Question Number : 16 Question Id : 1908899637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

**Options :**

19088938441. 1

19088938442. 2

19088938443. 3

19088938444. 4

**Question Number : 17 Question Id : 1908899638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

**Options :**

19088938445. 1

19088938446. 2

19088938447. 3

19088938448. 4

**Question Number : 18 Question Id : 1908899639 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

**Options :**

19088938449. 1

19088938450. 2

19088938451. 3

19088938452. 4

**Question Number : 19 Question Id : 1908899640 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

**Options :**

19088938453. 1

19088938454. 2

19088938455. 3

19088938456. 4

**Question Number : 20 Question Id : 1908899641 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Micro-irrigation fund of Rs. 5.000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

**Options :**

19088938457. 1

19088938458. 2

19088938459. 3

19088938460. 4

## **Part B Core : Horticulture**

**Section Id :** 190889183

**Section Number :** 2

**Section type :** Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889223
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 1908899642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT an example of often-cross pollinated crops?

1. Lima bean
2. Broad bean
3. Lettuce
4. Okra

**Options :**

- 19088938461. 1
- 19088938462. 2
- 19088938463. 3
- 19088938464. 4

**Question Number : 22 Question Id : 1908899643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

Which of the following is the early variety of Cauliflower?

1. Pusa Sharad
2. Pusa Meghna
3. Pusa Shukti
4. Pusa Paushja

**Options :**

19088938465. 1

19088938466. 2

19088938467. 3

19088938468. 4

**Question Number : 23 Question Id : 1908899644 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Diadelphous condition of stamens is found in which of the following crop?

1. Garden pea
2. Lettuce
3. Onion
4. Okra

**Options :**

19088938469. 1

19088938470. 2

19088938471. 3

19088938472. 4

**Question Number : 24 Question Id : 1908899645 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



The ideal temperature for potato tuberization is-

1. 10-12 °C
2. 18-20 °C
3. 24-26 °C
4. 28-30 °C

**Options :**

19088938473. 1

19088938474. 2

19088938475. 3

19088938476. 4

**Question Number : 25 Question Id : 1908899646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the seed rate of carrot (kg per ha)?

1. 2-3
2. 3-4
3. 5-6
4. 12-15

**Options :**

19088938477. 1

19088938478. 2

19088938479. 3

19088938480. 4

**Question Number : 26 Question Id : 1908899647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Little leaf of brinjal is caused by

1. Bacteria
2. Fungus
3. Phytoplasma
4. Virus

**Options :**

19088938481. 1

19088938482. 2

19088938483. 3

19088938484. 4

**Question Number : 27 Question Id : 1908899648 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The minimum isolation distance for producing certified seed of cauliflower is-

1. 1500 m
2. 1000 m
3. 2000 m
4. 500 m

**Options :**

19088938485. 1

19088938486. 2

19088938487. 3

19088938488. 4

**Question Number : 28 Question Id : 1908899649 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is the most commonly used propagation method in sweet potato?

1. Seeds
2. Vine cutting
3. Leave cutting
4. Root cutting

**Options :**

19088938489. 1

19088938490. 2

19088938491. 3

19088938492. 4

**Question Number : 29 Question Id : 1908899650 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is **NOT** a self-pollinated vegetable crop?

1. Lettuce
2. Dolichos bean
3. Kale
4. Garden pea

**Options :**

19088938493. 1

19088938494. 2

19088938495. 3

19088938496. 4

**Question Number : 30 Question Id : 1908899651 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Dr. Pushkarnath was associated with

1. Tomato breeding
2. Okra breeding
3. Potato breeding
4. Onion breeding

**Options :**

19088938497. 1

19088938498. 2

19088938499. 3

19088938500. 4

**Question Number : 31 Question Id : 1908899652 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following Nodal Agency coordinates the efforts of Agri-Export Zones (AEZ) ?

1. APEDA
2. ICAR
3. NABARD
4. NHB

**Options :**

19088938501. 1

19088938502. 2

19088938503. 3

19088938504. 4

**Question Number : 32 Question Id : 1908899653 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The ploidy level of the cultivated kiwifruit (*Actinidia deliciosa*) is

1. Diploid
2. Tetraploid
3. Hexaploid
4. Octaploid

**Options :**

19088938505. 1

19088938506. 2

19088938507. 3

19088938508. 4

**Question Number : 33 Question Id : 1908899654 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Headquarter of International Society for Horticulture Science (ISHS) is located at

1. New Delhi
2. Newzealand
3. Belgium
4. Brazil

**Options :**

19088938509. 1

19088938510. 2

19088938511. 3

19088938512. 4

**Question Number : 34 Question Id : 1908899655 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which kind of self-incompatibility is prevalent in almond ?

1. Sporophytic
2. Gametophytic
3. Cryptic
4. Heteromorphic

**Options :**

19088938513. 1

19088938514. 2

19088938515. 3

19088938516. 4

**Question Number : 35 Question Id : 1908899656 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The main objective of meristem culture is

1. Somaclonal variation
2. Virus elimination
3. Nematode elimination
4. Haploid induction

**Options :**

19088938517. 1

19088938518. 2

19088938519. 3

19088938520. 4

**Question Number : 36 Question Id : 1908899657 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



"Anlagen" is related with

1. Apple
2. Grape
3. Banana
4. Citrus

**Options :**

19088938521. 1

19088938522. 2

19088938523. 3

19088938524. 4

**Question Number : 37 Question Id : 1908899658 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Guava bears fruits on

1. Current season growth
2. Previous year growth
3. Spur
4. Stem

**Options :**

19088938525. 1

19088938526. 2

19088938527. 3

19088938528. 4

**Question Number : 38 Question Id : 1908899659 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Mango rootstock, 13-1 is used to combat the problem of

1. Drought stress
2. Salt stress
3. Heat stress
4. Excess moisture

**Options :**

19088938529. 1

19088938530. 2

19088938531. 3

19088938532. 4

**Question Number : 39 Question Id : 1908899660 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following Indian Research Institute has started work on banana genome editing?

1. ICAR-NIPB, New Delhi
2. TERI, New Delhi
3. NABI, Mohali
4. ICAR-NRC, Banana

**Options :**

19088938533. 1

19088938534. 2

19088938535. 3

19088938536. 4

**Question Number : 40 Question Id : 1908899661 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following planting system accommodates additional filler plant in the centre?

1. Square system
2. Rectangular system
3. Quincunx system
4. Contour system

**Options :**

19088938537. 1

19088938538. 2

19088938539. 3

19088938540. 4

**Question Number : 41 Question Id : 1908899662 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT** an important feature of Mughal Garden?

1. Terrace
2. Running Water
3. High protecting walls
4. Pagoda

**Options :**

19088938541. 1

19088938542. 2

19088938543. 3

19088938544. 4

**Question Number : 42 Question Id : 1908899663 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



'Applause', is a transgenic variety of which commercial flower crops and is of which colour?

1. Chrysanthemum, Red
2. Carnation, Blue
3. Rose, Blue
4. Gerbera, Yellow

**Options :**

19088938545. 1

19088938546. 2

19088938547. 3

19088938548. 4

**Question Number : 43 Question Id : 1908899664 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Seed rate of lawn/turf grass for developing lawn in one hectare area is

1. 5 kg/ ha
2. 25 kg/ ha
3. 50 kg/ ha
4. 100 kg/ ha

**Options :**

19088938549. 1

19088938550. 2

19088938551. 3

19088938552. 4

**Question Number : 44 Question Id : 1908899665 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Type of flower arrangement where narrow, tall, upright containers are used, is known as

1. Moribana
2. Nageire
3. Morimono
4. Zeneika

**Options :**

19088938553. 1

19088938554. 2

19088938555. 3

19088938556. 4

**Question Number : 45 Question Id : 1908899666 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following institute has developed rose variety 'Himalayan Wonder' ?

1. UHF, Solan
2. ICAR-IIHR, Bengaluru
3. ICAR-IARI, New Delhi
4. CSIR-IHBT, Palampur

**Options :**

19088938557. 1

19088938558. 2

19088938559. 3

19088938560. 4

**Question Number : 46 Question Id : 1908899667 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Speciality flower 'Bird of Paradise' is native of

1. Australia
2. India
3. South America
4. South Africa

**Options :**

19088938561. 1

19088938562. 2

19088938563. 3

19088938564. 4

**Question Number : 47 Question Id : 1908899668 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following software does not belongs to a CAD?

1. Advance Concrete
2. Advance Steel
3. NTSYS
4. Brics CAD

**Options :**

19088938565. 1

19088938566. 2

19088938567. 3

19088938568. 4

**Question Number : 48 Question Id : 1908899669 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following state having AEZ on Floriculture ?

1. Bihar
2. Punjab
3. Tamil Nadu
4. Gujarat

**Options :**

19088938569. 1

19088938570. 2

19088938571. 3

19088938572. 4

**Question Number : 49 Question Id : 1908899670 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a light climber ?

1. *Hiptage benghalensis*
2. *Quisqualis indica*
3. *Wisteria sinensis*
4. *Quamoclit pinnata*

**Options :**

19088938573. 1

19088938574. 2

19088938575. 3

19088938576. 4

**Question Number : 50 Question Id : 1908899671 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Rose species which imparted yellow colour to modern roses is

1. *Rosa damascena*
2. *Rosa foetida*
3. *Rosa canina*
4. *Rosa indica*

**Options :**

19088938577. 1

19088938578. 2

19088938579. 3

19088938580. 4

**Question Number : 51 Question Id : 1908899672 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a precursor of Ethylene biosynthesis?

1. Proline
2. Methionine
3. Sucrose
4. Alanine

**Options :**

19088938581. 1

19088938582. 2

19088938583. 3

19088938584. 4

**Question Number : 52 Question Id : 1908899673 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Blanching is done in vegetables before processing to

1. Inactivate the natural enzymes
2. Spoil colour, texture and flavours
3. Improve taste and flavour
4. Facilitate processing

**Options :**

19088938585. 1

19088938586. 2

19088938587. 3

19088938588. 4

**Question Number : 53 Question Id : 1908899674 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In Controlled atmosphere storage (CAS)

1. CO<sub>2</sub> level is elevated and O<sub>2</sub> level is lowered
2. CO<sub>2</sub> level is lowered and O<sub>2</sub> level is elevated
3. CO<sub>2</sub> level and O<sub>2</sub> level maintained at same level
4. Both CO<sub>2</sub> and O<sub>2</sub> level is lowered

**Options :**

19088938589. 1

19088938590. 2

19088938591. 3

19088938592. 4

**Question Number : 54 Question Id : 1908899675 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Sabudana/ sago is prepared from

1. Tapioca only
2. Cassava only
3. Tapioca and Cassava
4. Potato

**Options :**

19088938593. 1

19088938594. 2

19088938595. 3

19088938596. 4

**Question Number : 55 Question Id : 1908899676 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Tocklai Tea Experiment Station is located at

1. Ooty, Tamilnadu
2. Palampur, HP
3. Valparai, Tamil Nadu
4. Jorhat, Assam

**Options :**

19088938597. 1

19088938598. 2

19088938599. 3

19088938600. 4

**Question Number : 56 Question Id : 1908899677 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which one is NOT a physical property of fruits and vegetables?

1. Colour
2. TSS
3. Texture
4. Structure

**Options :**

19088938601. 1

19088938602. 2

19088938603. 3

19088938604. 4

**Question Number : 57 Question Id : 1908899678 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

If there is an acidity of 4.70% in plum pulp, how much acid will be there in 100 kg quantity?

1. 4700 gg
2. 470 kg
3. 4700 ppm
4. 47 kg

**Options :**

19088938605. 1

19088938606. 2

19088938607. 3

19088938608. 4

**Question Number : 58 Question Id : 1908899679 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Cooking of the fruits reduces many vital nutrients and the most thermolabile component in fruits during processing is:

1. Carbohydrates
2. Minerals
3. Fats
4. Vitamins

**Options :**

19088938609. 1

19088938610. 2

19088938611. 3

19088938612. 4

**Question Number : 59 Question Id : 1908899680 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Before drying of horticultural crops after sorting, washing and cutting which of the following is the most important step to maintain the quality of the produce?

1. Bleaching
2. Blanching
3. Squeezing
4. Cold treatment

**Options :**

19088938613. 1

19088938614. 2

19088938615. 3

19088938616. 4

**Question Number : 60 Question Id : 1908899681 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Respiration of the horticultural crops increases after harvesting. Which of the following has extremely high respiration rate?

1. Apple
2. Broccoli
3. Apricot
4. Walnut

**Options :**

19088938617. 1

19088938618. 2

19088938619. 3

19088938620. 4

**Question Number : 61 Question Id : 1908899682 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Citriodora leaf oil is obtained from which species?

1. *Acacia nilotica*
2. *Eucalyptus globulus*
3. *Eucalyptus citriodora*
4. *Acacia catechu*

**Options :**

19088938621. 1

19088938622. 2

19088938623. 3

19088938624. 4

**Question Number : 62 Question Id : 1908899683 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Artemisia belongs to the Family -

1. Asteraceae
2. Poaceae
3. Moraceae
4. Scrophulariaceae

**Options :**

19088938625. 1

19088938626. 2

19088938627. 3

19088938628. 4

**Question Number : 63 Question Id : 1908899684 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Most commonly used traditional method to extract the volatiles from aromatic plants is-

1. Hydro distillation
2. Hydrolytic maceration
3. Cold fat extraction
4. Expression

**Options :**

19088938629. 1

19088938630. 2

19088938631. 3

19088938632. 4

**Question Number : 64 Question Id : 1908899685 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Major plant part(s) of *Catharanthus roseus* used for medicinal purposes is/are-

1. Flowers only
2. Leaves only
3. Roots only
4. Both leaves and roots

**Options :**

19088938633. 1

19088938634. 2

19088938635. 3

19088938636. 4

**Question Number : 65 Question Id : 1908899686 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Where is ICAR – Directorate of Medicinal and Aromatic Plants Research situated?

1. Lucknow
2. Anand
3. New Delhi
4. Kolkata

**Options :**

19088938637. 1

19088938638. 2

19088938639. 3

19088938640. 4

**Question Number : 66 Question Id : 1908899687 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Tartaric acid percentage in tamarind is

1. 15%
2. 8%
3. 20 %
4. 25 %

**Options :**

19088938641. 1

19088938642. 2

19088938643. 3

19088938644. 4

**Question Number : 67 Question Id : 1908899688 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The inflorescence of which crop has indeterminate panicle and is polygamomonoecious?

1. Oilpalm
2. Palmyrah
3. Arecanut
4. Cashewnut

**Options :**

19088938645. 1

19088938646. 2

19088938647. 3

19088938648. 4

**Question Number : 68 Question Id : 1908899689 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Crown choking in coconut is due to deficiency of

1. Molybdenum
2. Boron
3. Iron
4. Calcium

**Options :**

19088938649. 1

19088938650. 2

19088938651. 3

19088938652. 4

**Question Number : 69 Question Id : 1908899690 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Tapping of rubber is done in the early hours of morning when the

1. Turgor pressure is maximum
2. Atmospheric humidity is high
3. Temperature is low
4. Light intensity is optimum

**Options :**

19088938653. 1

19088938654. 2

19088938655. 3

19088938656. 4

**Question Number : 70 Question Id : 1908899691 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The per cent content of volatile oil in fresh curry leaves is

1. 3.6
2. 2.6
3. 1.0
4. 5.0

**Options :**

19088938657. 1

19088938658. 2

19088938659. 3

19088938660. 4

## Part C : Vegetable Science and Olericulture

<b>Section Id :</b>	190889184
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889224
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 1908899692 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following term is used for removal of off-types from a seed production plot?

1. Thining
2. Weeding
3. Roguing
4. Selection

**Options :**

19088938661. 1

19088938662. 2

19088938663. 3

19088938664. 4

**Question Number : 72 Question Id : 1908899693 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II**

List I	List II
Crop	Major nutraceutical substance
A. Tomato	I. Sinigrin
B. Cabbage	II. Sulfonium
C. Kale	III. Cyanogenin
D. Cassava	IV. Isocoumarin
	V. Lutein

Choose the **correct** answer from the options given below:

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

**Options :**

19088938665. 1

19088938666. 2

19088938667. 3

19088938668. 4

**Question Number : 73 Question Id : 1908899694 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Blanching is the treatment of vegetables with boiling water at about 100 ° C or steam for short periods of time followed by immediate cooling prior to canning.

**Reason R:** Blanching aims at activation of enzymes thus, preventing the possibility of rotting.

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

**Options :**

19088938669. 1

19088938670. 2

19088938671. 3

19088938672. 4

**Question Number : 74 Question Id : 1908899695 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the prescribed seed moisture (%) in vacuum packing of different vegetable seeds?

1. 5 - 8
2. 8 - 12
3. 7 - 10
4. 10 - 15

**Options :**

19088938673. 1

19088938674. 2



19088938675. 3

19088938676. 4

**Question Number : 75 Question Id : 1908899696 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Vegetables which carry cholesterol-lowering as one of the properties are nutritionally more beneficial.

**Reason R:** They contain high soluble fibres that help absorbing cholesterol from digestive tract while Vitamin C helps in significant reduction of blood lipids.

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** adequately explains **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

**Options :**

19088938677. 1

19088938678. 2

19088938679. 3

19088938680. 4

**Question Number : 76 Question Id : 1908899697 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is biofortified variety of sweet potato?

1. Bhu Sona
2. Gauri
3. Shankar
4. Sree Nandini

**Options :**



19088938681. 1

19088938682. 2

19088938683. 3

19088938684. 4

**Question Number : 77 Question Id : 1908899698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT** a Bt based bio-formulation available commercially in the market?

1. Spicturin
2. Delfin
3. Biovit
4. NSKE

**Options :**

19088938685. 1

19088938686. 2

19088938687. 3

19088938688. 4

**Question Number : 78 Question Id : 1908899699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

International Centre for Potato, Lima maintains germplasm collection of which of the following?

1. Potato and sweet potato
2. Potato and cassava
3. Sugarbeet and potato
4. Sugarbeet, potato and sweet potato

**Options :**

19088938689. 1

19088938690. 2

19088938691. 3

19088938692. 4

**Question Number : 79 Question Id : 1908899700 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Cavity spot is a physiological disorder of

1. Radish
2. Beet root
3. Carrot
4. Turnip

**Options :**

19088938693. 1

19088938694. 2

19088938695. 3

19088938696. 4

**Question Number : 80 Question Id : 1908899701 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT CORRECT** about sporophytic system of self-incompatibility?

1. There are frequent reciprocal differences
2. Homozygotes for S allele are a normal part of the system
3. Stigma surface is plumose
4. An incompatibility groups may contain two genotypes

**Options :**

19088938697. 1

19088938698. 2

19088938699. 3

19088938700. 4

**Question Number : 81 Question Id : 1908899702 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**



**Correct Marks : 4 Wrong Marks : 1**

Which of the following crop has the maximum isolation distance requirement for certified seed production?

1. Onion
2. Cabbage
3. Okra
4. Chilli

**Options :**

19088938701. 1

19088938702. 2

19088938703. 3

19088938704. 4

**Question Number : 82 Question Id : 1908899703 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II**

List I	List II
A. High-cost greenhouse	I. Manually operated
B. Cladding material	II. Short life span
C. Naturally ventilated	III. Precisely regulated climatic greenhouse
D. Low cost green house	IV. Poly ethylene film

Choose the **correct** answer from the options given below:

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

**Options :**

19088938705. 1

19088938706. 2

19088938707. 3

19088938708. 4



**Question Number : 83 Question Id : 1908899704 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

**Assertion A :** Leaf rolling is the most familiar response to water stress.

**Reason R :** Para-heliotrophy is the change of leaf orientation with the response of high temperature and drought.

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

**Options :**

19088938709. 1

19088938710. 2

19088938711. 3

19088938712. 4

**Question Number : 84 Question Id : 1908899705 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

**Assertion A :** Chilling causes water stress in plants.

**Reason R :** Chilling causes a sharp decrease in root hydraulic pressure.

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

**Options :**

19088938713. 1

19088938714. 2

19088938715. 3

19088938716. 4

**Question Number : 85 Question Id : 1908899706 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In case of onion, which of the followings are desirable features?

A. Dormancy

B. High total soluble solids

C. Pungency

D. High ratio of reducing to non-reducing sugars

E. Early bolting

Choose the *correct* answer from the options given below:

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

**Options :**

19088938717. 1

19088938718. 2

19088938719. 3

19088938720. 4

**Question Number : 86 Question Id : 1908899707 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Match List I with List II

List I	List II
(Variety/crop)	(Breeding method used for development of variety)
A. Arka Pitamber of onion	I. Hybridizaion/selection
B. Pusa Vasuda of carrot	II. Synthetic
C. Pusa Sambandh of Cabbage	III. Heterosis breeding
D. Kufri Pukhraj of potato	IV. Pedigree method
	V. Pure line selection

Choose the correct answer from the options given below:

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

**Options :**

19088938721. 1

19088938722. 2

19088938723. 3

19088938724. 4

**Question Number : 87 Question Id : 1908899708 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The origin of *Abelmoschus esculentus* ( $2n=130$ ) is most likely from which of the following crosses?

1. *Abelmoschus moschata* × *Abelmoschus ficulense*
2. *Abelmoschus tuberculatus* × *Abelmoschus moschata*
3. *Abelmoschus manihot* × *Abelmoschus tuberculatus*
4. *Abelmoschus moschata* × *Abelmoschus caillei*

**Options :**

19088938725. 1

19088938726. 2

19088938727. 3

19088938728. 4



**Question Number : 88 Question Id : 1908899709 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Technology T** and the other is labelled as **Utility U**

**Technology T:** Transgenic plants expressing the coding region of the *iaaH* gene under the control of ovule-specific *DefH9* promoter showed parthenocarpic fruit development.

**Utility U:** Parthenocarpy transgenics of fruits/vegetables have tremendous potential.

In light of the above statements, choose the *most appropriate* answer from the options given below

1. Both **T** and **U** are correct and **U** adequately supports the use of **T**
2. Both **T** and **U** are correct but **U** does NOT support the use of **T**
3. **T** is correct but **U** is not correct
4. **T** is not correct but **U** is correct

**Options :**

19088938729. 1

19088938730. 2

19088938731. 3

19088938732. 4

**Question Number : 89 Question Id : 1908899710 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I	List II
A. Auxin	I. 2-ip
B. Cytokinin	II. 2,4-D
C. Antiauxin	III. ABA
D. Growth retardant	IV. TIBA

Choose the **correct** answer from the options given below:

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

**Options :**

19088938733. 1

19088938734. 2

19088938735. 3

19088938736. 4

**Question Number : 90 Question Id : 1908899711 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The edible part of Rhubarb is-

1. Leaf
2. Flower
3. Petiole
4. Stem

**Options :**

19088938737. 1

19088938738. 2

19088938739. 3

19088938740. 4



**Question Number : 91 Question Id : 1908899712 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** It is highly desirable that evaluation for salinity resistance be performed under field conditions.

**Statement II:** Salinity levels in the fields are inherently variable.

In light of the above statements, choose the *correct* 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

**Options :**

19088938741. 1

19088938742. 2

19088938743. 3

19088938744. 4

**Question Number : 92 Question Id : 1908899713 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following national agency is responsible for accreditation of certification bodies under National Programme for Organic Production (NPOP)?

1. APEDA
2. NCOF
3. ICAR
4. OFAI

**Options :**

19088938745. 1

19088938746. 2

19088938747. 3

19088938748. 4



**Question Number : 93 Question Id : 1908899714 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** Late blight of potato and tomato rapidly multiplies under cool temperature and high humidity.

**Statement II:** Early blight of potato and tomato is severe in comparatively high temperature, dry weather and intermittent rain conditions.

In light of the above statements, choose the *correct* 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

**Options :**

19088938749. 1

19088938750. 2

19088938751. 3

19088938752. 4

**Question Number : 94 Question Id : 1908899715 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I	List II
Crop	Scientific name
A. Chinese potato	I. <i>Pastinaca sativa</i>
B. Lima Bean	II. <i>Coccinia grandis</i>
C. Parsnip	III. <i>Plectranthus rotundifolius</i>
D. Ivy Gourd	IV. <i>Phaseolus lunatus</i>
	V. <i>Psophocarpus tetragonolobus</i>

Choose the correct answer from the options given below:

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

**Options :**

19088938753. 1

19088938754. 2

19088938755. 3

19088938756. 4

**Question Number : 95 Question Id : 1908899716 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which one of the following plant nutrients is useful in increasing resistance to diseases and insect-pests?

1. Phosphorus
2. Potassium
3. Nitrogen
4. Calcium

**Options :**

19088938757. 1

19088938758. 2

19088938759. 3

19088938760. 4



**Question Number : 96 Question Id : 1908899717 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is a CRISPR based gene-edited plant the first time served up in meal?

1. Tomato
2. Cabbage
3. Lettuce
4. Potato

**Options :**

19088938761. 1

19088938762. 2

19088938763. 3

19088938764. 4

**Question Number : 97 Question Id : 1908899718 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which are the *correct* statements about onion floral biology ?

- A. The flowering structure is an aggregate of many small inflorescences of 5-10 flowers.
- B. Inflorescence is raceme type.
- C. Its flower has 6 perianth segment.
- D. Occurance of delayed male maturity is noted.
- E. The floral stalk is a one internode extension of the stem.

Choose the *correct* answer from the options given below:

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

**Options :**

19088938765. 1



19088938766. 2

19088938767. 3

19088938768. 4

**Question Number : 98 Question Id : 1908899719 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

According to APEDA, the export value of vegetable crops during 2019-20 was

1. Rs 4350 Crores
2. Rs 6340 Crores
3. Rs 2430 Crores
4. Rs 3540 Crores

**Options :**

19088938769. 1

19088938770. 2

19088938771. 3

19088938772. 4

**Question Number : 99 Question Id : 1908899720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A :** Scientists and breeders introgressed chromosome segment from a wild ancestor *Brassica villosa* to broccoli to enhance glucosinolate levels.

**Reason R :** Low glucosinolate broccoli might be suitable for increasing the amount of sulforaphane in the diet.

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

**Options :**

19088938773. 1

19088938774. 2

19088938775. 3

19088938776. 4

**Question Number : 100 Question Id : 1908899721 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is **NOT** an anti-transpirants ?

1. Phenyl mercuric acetate
2. 8-HQ
3. Kaoline
4. Silver thio-sulphate

**Options :**

19088938777. 1

19088938778. 2

19088938779. 3

19088938780. 4

**Question Number : 101 Question Id : 1908899722 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Given below are two statements

**Statement I:** Recombinant inbred lines (RILs) population is mortal mapping population.

**Statement II:** Doubled haploid (DH) population is not suitable for mapping heterosis QTLs.

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

**Options :**

19088938781. 1

19088938782. 2

19088938783. 3

19088938784. 4

**Question Number : 102 Question Id : 1908899723 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The preponderance of staminate flowers in watermelon is caused due to

- A. Excessive nitrogen application
- B. Low-temperature condition
- C. Long day length
- D. Over irrigation
- E. Application of TIBA @50 ppm

Choose the *correct* answer from the options given below:

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

**Options :**

19088938785. 1



19088938786. 2

19088938787. 3

19088938788. 4

**Question Number : 103 Question Id : 1908899724 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Chromosome number of Elephant foot yam (*Amorphophallus paeoniifolius*) is

1.  $2n = 30$
2.  $2n = 48$
3.  $2n = 20$
4.  $2n = 26$

**Options :**

19088938789. 1

19088938790. 2

19088938791. 3

19088938792. 4

**Question Number : 104 Question Id : 1908899725 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Hydroponics term was coined by

1. F. Garden
2. G. Galton
3. H. Peterson
4. W. Gerick

**Options :**

19088938793. 1

19088938794. 2

19088938795. 3

19088938796. 4

**Question Number : 105 Question Id : 1908899726 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange different parts of Capsicum in the sequence of low to high content of vitamin-C.

A. Flesh

B. Seeds

C. Placenta

Choose the *correct* answer from the options given below

1. A, B, C
2. B, C, A
3. C, A, B
4. B, A, C

**Options :**

19088938797. 1

19088938798. 2

19088938799. 3

19088938800. 4

**Question Number : 106 Question Id : 1908899727 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
<b>Family</b>	<b>Vegetable crop</b>
A. Fabaceae	I. Coriander
B. Brassicaceae	II. Baby corn
C. Apiaceae	III. Dolichos bean
D. Poaceae	IV. Kale

Choose the **correct** answer from the options given below:

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

**Options :**

19088938801. 1

19088938802. 2

19088938803. 3

19088938804. 4

**Question Number : 107 Question Id : 1908899728 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The major challenge for introgression of gene(s) from long day varieties to short day varieties of onion for enhancing bulb size under short day condition is

1. Difference of ploidy level between long and short day type
2. Post-fertilization crossing barriers
3. Flowering limitation of long day types
4. Lack of large bulb size gene (s) in long day varieties

**Options :**

19088938805. 1

19088938806. 2

19088938807. 3

19088938808. 4



**Question Number : 108 Question Id : 1908899729 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Pant Anupama is the variety of

1. Cowpea
2. French bean
3. Garden pea
4. Dolichos bean

**Options :**

19088938809. 1

19088938810. 2

19088938811. 3

19088938812. 4

**Question Number : 109 Question Id : 1908899730 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT a good indication for proper stage of maturity in watermelon ?

1. Drying of the tendrils at the base of fruit.
2. Heavy dull sound when fruit is tapped.
3. Change in the colour of portion of the fruit which rest on the ground.
4. A mettalic sound when fruit is tapped.

**Options :**

19088938813. 1

19088938814. 2

19088938815. 3

19088938816. 4

**Question Number : 110 Question Id : 1908899731 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the architectural trait(s) suited for ideotype breeding that is/are unfavorable to epidemic development of potato late blight

- A. Fast canopy closure
- B. High leaf area density
- C. Long internodal length
- D. Large foliar size

Choose the *correct* answer from the options given below:

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

**Options :**

19088938817. 1

19088938818. 2

19088938819. 3

19088938820. 4

**Question Number : 111 Question Id : 1908899732 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Pointed gourd is called the " King of gourd".

**Reason R:** Pointed gourd has higher nutrient content than other cucurbitaceous vegetables.

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

**Options :**



19088938821. 1

19088938822. 2

19088938823. 3

19088938824. 4

**Question Number : 112 Question Id : 1908899733 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** Sree Shilpa, Konkan Gorkhand are the varieties of lesser yam.

**Statement II:** Sree Dhanya is the variety of white yam.

In light of the above statements, choose the *correct* 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

**Options :**

19088938825. 1

19088938826. 2

19088938827. 3

19088938828. 4

**Question Number : 113 Question Id : 1908899734 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which architectural trait is **NOT** suited for ideotype breeding for cucumber ?

1. Light green fruit skin colour with prominent spines
2. Minimum node number at which first pistillate flower appear
3. Fruits free from carpel seperation
4. High female to male sex ratio

**Options :**



19088938829. 1

19088938830. 2

19088938831. 3

19088938832. 4

**Question Number : 114 Question Id : 1908899735 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II**

<b>List I</b>	<b>List II</b>
<b>Mapping Population</b>	<b>Characteristic</b>
A. F <sub>2</sub> population	I. Positional cloning
B. Recombinant Inbred Lines	II. AB QTL method
C. Near-Isogenic Lines	III. Mapping of heterosis loci
D. Backcross population	IV. SSD method

Choose the **correct** answer from the options given below:

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

**Options :**

19088938833. 1

19088938834. 2

19088938835. 3

19088938836. 4

**Question Number : 115 Question Id : 1908899736 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

List I	List II
Vegetable crop	Hybrid
A. Okra	I. Kashi Ratna
B. Chilli	II. Kashi Shristi
C. Cucumber	III. Kashi Sandesh
D. Brinjal	IV. Kashi Nutan

Choose the **correct** answer from the options given below:

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

**Options :**

19088938837. 1

19088938838. 2

19088938839. 3

19088938840. 4

**Question Number : 116 Question Id : 1908899737 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A :** Beans, cauliflower, peas and carrot are the suitable vegetables for freezing.

**Reason R :** Ascorbic acid is the most difficult nutrient to preserve in frozen storage.

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

**Options :**

19088938841. 1



19088938842. 2

19088938843. 3

19088938844. 4

**Question Number : 117 Question Id : 1908899738 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is/are correct about climacteric fruits?

- A. It produces lesser amounts of ethylene
- B. Sharp increase in respiration coincides with ripening
- C. Tomato is not a climacteric fruit

*Choose the most suitable answer from the options given below:*

- 1. A only
- 2. B only
- 3. Both A and B
- 4. C only

**Options :**

19088938845. 1

19088938846. 2

19088938847. 3

19088938848. 4

**Question Number : 118 Question Id : 1908899739 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

According to IFOAM (International Federation of Organic Agriculture Movements), organic agriculture is guided by-

- A. Principle of Health
- B. Principle of Ecology
- C. Principle of Care
- D. Principle of Fairness

Choose the *correct* answer from the options given below:

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

**Options :**

- 19088938849. 1
- 19088938850. 2
- 19088938851. 3
- 19088938852. 4

**Question Number : 119 Question Id : 1908899740 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is the largest in F<sub>1</sub> seed market by volume and value ?

- 1. Tomato
- 2. Cabbage
- 3. Okra
- 4. Chilli

**Options :**

- 19088938853. 1
- 19088938854. 2
- 19088938855. 3
- 19088938856. 4



Question Number : 120 Question Id : 1908899741 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below is the raw data pertaining to head characteristics of 4 cabbage genotypes

Genotypes	Net weight of the head (g)	Average of lateral and polar diameter (cm)
A	800	13.5
B	800	15.5
C	800	10.0
D	800	11.0

Choose the correct descending order of head compactness (Z).

1.  $A > B > C > D$
2.  $C > D > A > B$
3.  $B > A > D > C$
4.  $D > C > B > A$

**Options :**

19088938857. 1

19088938858. 2

19088938859. 3

19088938860. 4