

National Testing Agency

Question Paper Name :	Vegetable Science and Olericulture 23rd Sep 2020 Shift 2 Set 2
Subject Name :	Vegetable Science and Olericulture
Creation Date :	2020-09-23 19:33:34
Duration :	120
Total Marks :	480
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Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Vegetable Science and Olericulture

Group Number :	1
Group Id :	71087014
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A General Knowledge

Section Id :	71087040
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087040
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108701621 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

Options :

- 7108706481. 1
- 7108706482. 2
- 7108706483. 3
- 7108706484. 4

Question Number : 2 Question Id : 7108701622 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

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

- 1. Only A and B
- 2. Only B and C
- 3. Only C and D
- 4. Only A and C

Options :

- 7108706485. 1
- 7108706486. 2
- 7108706487. 3
- 7108706488. 4

Question Number : 3 Question Id : 7108701623 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

Options :

- 7108706489. 1

7108706490. 2

7108706491. 3

7108706492. 4

Question Number : 4 Question Id : 7108701624 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

Options :

7108706493. 1

7108706494. 2

7108706495. 3

7108706496. 4

Question Number : 5 Question Id : 7108701625 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement A: MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

Statement B: Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

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

1. Both Statement A and Statement B are correct
2. Both Statement A and Statement B are incorrect
3. Statement A is correct but Statement B is incorrect
4. Statement A is incorrect but Statement B is correct

Options :

- 7108706497. 1
- 7108706498. 2
- 7108706499. 3
- 7108706500. 4

Question Number : 6 Question Id : 7108701626 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

Options :

- 7108706501. 1
- 7108706502. 2
- 7108706503. 3
- 7108706504. 4

Question Number : 7 Question Id : 7108701627 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

Options :

- 7108706505. 1
- 7108706506. 2
- 7108706507. 3
- 7108706508. 4

Question Number : 8 Question Id : 7108701628 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Utter Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

Options :

7108706509. 1

7108706510. 2

7108706511. 3

7108706512. 4

Question Number : 9 Question Id : 7108701629 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which type of N-fertilizer is suitable for water-logged soils?

1. Zinc Phosphate
2. Ammonium Sulphate
3. Calcium
4. Potassium Nitrate

Options :

7108706513. 1

7108706514. 2

7108706515. 3

7108706516. 4

Question Number : 10 Question Id : 7108701630 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

1. Bauxite deposits
2. Manganese deposits
3. Copper deposits
4. High-grade haematite deposits

Options :

7108706517. 1

7108706518. 2

7108706519. 3

7108706520. 4

Question Number : 11 Question Id : 7108701631 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

Options :

7108706521. 1

7108706522. 2

7108706523. 3

7108706524. 4

Question Number : 12 Question Id : 7108701632 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

Options :

7108706525. 1
7108706526. 2
7108706527. 3
7108706528. 4

Question Number : 13 Question Id : 7108701633 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries was the partner country of 34th Surajkund International Crafts Fair held in Haryana?

1. China
2. Nepal
3. Bhutan
4. Uzbekistan

Options :

7108706529. 1
7108706530. 2
7108706531. 3
7108706532. 4

Question Number : 14 Question Id : 7108701634 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

1. University of Delhi
2. University of Kolkata
3. University of Mumbai
4. University of Hyderabad

Options :

- 7108706533. 1
- 7108706534. 2
- 7108706535. 3
- 7108706536. 4

Question Number : 15 Question Id : 7108701635 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

Options :

- 7108706537. 1
- 7108706538. 2
- 7108706539. 3
- 7108706540. 4

Question Number : 16 Question Id : 7108701636 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals

Options :

- 7108706541. 1
- 7108706542. 2
- 7108706543. 3
- 7108706544. 4

Question Number : 17 Question Id : 7108701637 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

Options :

- 7108706545. 1
- 7108706546. 2
- 7108706547. 3
- 7108706548. 4

Question Number : 18 Question Id : 7108701638 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

Options :

- 7108706549. 1
- 7108706550. 2
- 7108706551. 3
- 7108706552. 4

Question Number : 19 Question Id : 7108701639 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

Options :

- 7108706553. 1
- 7108706554. 2
- 7108706555. 3
- 7108706556. 4

Question Number : 20 Question Id : 7108701640 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

Options :

- 7108706557. 1

7108706558. 2

7108706559. 3

7108706560. 4

Part B Core Horticulture

Section Id :	71087041
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087041
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108701641 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following environmental conditions are favourable for tuberization in potato?

1. Short day and low temperature
2. Short day and high temperature
3. Long day and low temperature
4. Long day and moderate temperature

Options :

7108706561. 1

7108706562. 2

7108706563. 3

7108706564. 4

Question Number : 22 Question Id : 7108701642 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following vegetables is mainly anemophilous in nature?

1. Carrot
2. Onion
3. Radish
4. Beet leaf

Options :

7108706565. 1

7108706566. 2

7108706567. 3

7108706568. 4

Question Number : 23 Question Id : 7108701643 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If crosses were made among eight parents in a half diallel mating system, how many total combinations of F1 will be generated?

1. 56
2. 28
3. 32
4. 64

Options :

7108706569. 1

7108706570. 2

7108706571. 3

7108706572. 4

Question Number : 24 Question Id : 7108701644 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Deficiency symptom of which one of the following nutrients starts at apical bud?

1. Nitrogen
2. Phosphorus
3. Potash
4. Boron

Options :

7108706573. 1
7108706574. 2
7108706575. 3
7108706576. 4

Question Number : 25 Question Id : 7108701645 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Self-Incompatibility system has been commercially exploited for developing hybrids in

1. Carrot
2. Cabbage
3. Tomato
4. Onion

Options :

7108706577. 1
7108706578. 2
7108706579. 3
7108706580. 4

Question Number : 26 Question Id : 7108701646 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Chromosome number of sweet potato is

1. $2n=2x=90$
2. $2n=2x=30$
3. $2n=6x=90$
4. $2n=4x=48$

Options :

- 7108706581. 1
- 7108706582. 2
- 7108706583. 3
- 7108706584. 4

Question Number : 27 Question Id : 7108701647 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Kashi Lalima is a newly developed variety of

1. Tomato
2. Radish
3. Carrot
4. Okra

Options :

- 7108706585. 1
- 7108706586. 2
- 7108706587. 3
- 7108706588. 4

Question Number : 28 Question Id : 7108701648 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bud necrosis disease of watermelon is spread by

1. Leaf hopper
2. White fly
3. Thrips
4. Aphids

Options :

7108706589. 1

7108706590. 2

7108706591. 3

7108706592. 4

Question Number : 29 Question Id : 7108701649 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cavity spot of carrot is associated with the deficiency of

1. Mg
2. Ca
3. Mn
4. K

Options :

7108706593. 1

7108706594. 2

7108706595. 3

7108706596. 4

Question Number : 30 Question Id : 7108701650 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Phenotypic ratio observed in case of recessive epistasis is

1. 15:1
2. 9:3:4
3. 12:3:1
4. 9:7

Options :

- 7108706597. 1
- 7108706598. 2
- 7108706599. 3
- 7108706600. 4

Question Number : 31 Question Id : 7108701651 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Standford fig belongs to which group/ category?

1. Capri
2. Edible
3. San Pedro
4. Smyrna

Options :

- 7108706601. 1
- 7108706602. 2
- 7108706603. 3
- 7108706604. 4

Question Number : 32 Question Id : 7108701652 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following fruit crops is a member of Euphorbiaceae?

1. European gooseberry
2. Jack fruit
3. Pecan nut
4. Star gooseberry

Options :

- 7108706605. 1
- 7108706606. 2
- 7108706607. 3
- 7108706608. 4

Question Number : 33 Question Id : 7108701653 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following research centres has the largest collection of custard apple in India?

1. Sangareddy
2. Rahuri
3. Bengaluru
4. Tirupati

Options :

- 7108706609. 1
- 7108706610. 2
- 7108706611. 3
- 7108706612. 4

Question Number : 34 Question Id : 7108701654 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A spur in almond remains productive for

1. 2 years
2. 3 years
3. 4 years
4. 5 years

Options :

- 7108706613. 1
- 7108706614. 2
- 7108706615. 3
- 7108706616. 4

Question Number : 35 Question Id : 7108701655 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Prof. Dennis Gonsalves is associated with development of

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

Options :

- 7108706617. 1
- 7108706618. 2
- 7108706619. 3
- 7108706620. 4

Question Number : 36 Question Id : 7108701656 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cryptoxanthin and carotenoids are found prominently in

1. Avocado
2. Papaya
3. Sapota
4. Pineapple

Options :

- 7108706621. 1
- 7108706622. 2
- 7108706623. 3
- 7108706624. 4

Question Number : 37 Question Id : 7108701657 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Paclobutrazol is the most preferred growth retardant due to its

1. Anti-auxin activity
2. Anti-gibberellin activity
3. Inhibitor nature
4. Liquid form

Options :

- 7108706625. 1
- 7108706626. 2
- 7108706627. 3
- 7108706628. 4

Question Number : 38 Question Id : 7108701658 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Whole Genome Sequence was first deciphered in which one of the following grape genotypes?

1. Perlette
2. Pinot Blanc
3. Pinot Noir
4. Superior Seedles

Options :

- 7108706629. 1
- 7108706630. 2
- 7108706631. 3
- 7108706632. 4

Question Number : 39 Question Id : 7108701659 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Most effective control of soil nematodes in glasshouses is

1. Solarization
2. Trap crop
3. Application of neem cake
4. Formalin fumigation

Options :

- 7108706633. 1
- 7108706634. 2
- 7108706635. 3
- 7108706636. 4

Question Number : 40 Question Id : 7108701660 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Rooting of stem cuttings is most effective when the night temperature is

1. 12-14 °C
2. 15-16 °C
3. 17-19 °C
4. 20-21 °C

Options :

7108706637. 1
7108706638. 2
7108706639. 3
7108706640. 4

Question Number : 41 Question Id : 7108701661 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

While hybridizing chrysanthemum flowers, the ideal stage for emasculation is

1. Fully opened flowers when the disc florets are completely visible
2. Half opened flowers with 50% of the disc florets visible
3. Fully developed unopened flowers
4. Three fourths unopened flowers with 75% of the ray florets visible

Options :

7108706641. 1
7108706642. 2
7108706643. 3
7108706644. 4

Question Number : 42 Question Id : 7108701662 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In protected cultivation of roses, prolonged exposure to low temperatures leads to

1. Formation of blind shoots
2. Formation of bent neck
3. Bud splitting
4. Flower bud discolouration

Options :

- 7108706645. 1
- 7108706646. 2
- 7108706647. 3
- 7108706648. 4

Question Number : 43 Question Id : 7108701663 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In protected cultivation of chrysanthemum, year-round commercial production is achieved by manipulating

1. auxin and growth ABA spraying schedules
2. light and dark cycles
3. temperature regimes
4. irrigation and fertigation schedules

Options :

- 7108706649. 1
- 7108706650. 2
- 7108706651. 3
- 7108706652. 4

Question Number : 44 Question Id : 7108701664 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Widely used rootstock for commercial budding/grafting of roses is

1. *Rosa multiflora*
2. *Rosa indica*
3. *Rosa canina inermis*
4. *Rosa clinophylla*

Options :

- 7108706653. 1
- 7108706654. 2
- 7108706655. 3
- 7108706656. 4

Question Number : 45 Question Id : 7108701665 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following grasses could be selected for the establishment of a lawn with very fine texture grass that gives soft carpet-like feel?

1. *Agrostis tenuis*
2. *Lolium perenne*
3. *Cyprus rotundus*
4. *Poa pratensis*

Options :

- 7108706657. 1
- 7108706658. 2
- 7108706659. 3
- 7108706660. 4

Question Number : 46 Question Id : 7108701666 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Bending is a specialised horticultural practice widely used in the commercial production of

1. Gypsophila
2. Chrysanthemum
3. Rose
4. Liliium

Options :

- 7108706661. 1
- 7108706662. 2
- 7108706663. 3
- 7108706664. 4

Question Number : 47 Question Id : 7108701667 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following flower crops is ideal as a dry flower?

1. *Helichrysum* spp.
2. *Helianthus* spp.
3. *Gerbera* spp.
4. *Lilium* spp.

Options :

- 7108706665. 1
- 7108706666. 2
- 7108706667. 3
- 7108706668. 4

Question Number : 48 Question Id : 7108701668 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Betalain pigments can be isolated from

1. Bougainvillea
2. Petunia
3. Chrysanthemum
4. Gladiolus

Options :

- 7108706669. 1
- 7108706670. 2
- 7108706671. 3
- 7108706672. 4

Question Number : 49 Question Id : 7108701669 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following methods is the quickest for establishing a lawn?

1. Grass plastering
2. Dibbling
3. Hydroseeding
4. Turfing

Options :

- 7108706673. 1
- 7108706674. 2
- 7108706675. 3
- 7108706676. 4

Question Number : 50 Question Id : 7108701670 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following software is widely used for 2-D and 3-D rendering of the garden designing?

1. Photoshop
2. Coral Draw
3. AutoCAD and ARCHICAD
4. Tally

Options :

- 7108706677. 1
- 7108706678. 2
- 7108706679. 3
- 7108706680. 4

Question Number : 51 Question Id : 7108701671 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

'SPI' (Starch Pattern Index) is related to the maturity of

1. Mango
2. Guava
3. Pear
4. Apple

Options :

- 7108706681. 1
- 7108706682. 2
- 7108706683. 3
- 7108706684. 4

Question Number : 52 Question Id : 7108701672 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

'During Heat Pasteurization, which vitamin can increase in the fruit or vegetable?

1. Niacin
2. Vitamin C
3. Thiamin
4. Riboflavin

Options :

7108706685. 1
7108706686. 2
7108706687. 3
7108706688. 4

Question Number : 53 Question Id : 7108701673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The famous dried product of '*Benincasa hispida*' is a

1. Candy
2. Preserve
3. Crystallized fruit
4. Glazed fruit

Options :

7108706689. 1
7108706690. 2
7108706691. 3
7108706692. 4

Question Number : 54 Question Id : 7108701674 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most suitable grape variety for Champagne making is

1. White Riesling
2. Muscat of Alexandria
3. Pusa Navrang
4. Pearl of Csaba

Options :

7108706693. 1
7108706694. 2
7108706695. 3
7108706696. 4

Question Number : 55 Question Id : 7108701675 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

100 kg of fresh ginger will yield approximately how many kilos of dried ginger?

1. 10 kg
2. 15 kg
3. 20 kg
4. 30 kg

Options :

7108706697. 1
7108706698. 2
7108706699. 3
7108706700. 4

Question Number : 56 Question Id : 7108701676 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

'Sleepiness' in carnation is due to

1. Low ethylene concentration
2. High ethylene concentration
3. Low respiration rate
4. High respiration rate

Options :

- 7108706701. 1
- 7108706702. 2
- 7108706703. 3
- 7108706704. 4

Question Number : 57 Question Id : 7108701677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a variety of coconut?

1. Kalpa Surya
2. Ananta Ganga
3. Chandra Sankara
4. Chandragiri

Options :

- 7108706705. 1
- 7108706706. 2
- 7108706707. 3
- 7108706708. 4

Question Number : 58 Question Id : 7108701678 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The best RH and temperature combination for banana storage is

1. 85-90% RH and 10 °C temperature
2. 80-85% RH and 13 °C temperature
3. 85-90% RH and 13 °C temperature
4. 80-85% RH and 10 °C temperature

Options :

- 7108706709. 1
- 7108706710. 2
- 7108706711. 3
- 7108706712. 4

Question Number : 59 Question Id : 7108701679 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the third principle of HACCP?

1. Identification of HACCP
2. Determination of Critical Control Point
3. Establishment of Critical Control Point
4. Establishment of Monitoring Procedures

Options :

- 7108706713. 1
- 7108706714. 2
- 7108706715. 3
- 7108706716. 4

Question Number : 60 Question Id : 7108701680 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a correct cross?

1. Pusa Arunima – Amrapali x Sensation
2. Ratna – Neelum x Alphonso
3. Sindhu – Ratna x Dashehari
4. Arka Puneet –Alphonso x Banganpalli

Options :

- 7108706717. 1
- 7108706718. 2
- 7108706719. 3
- 7108706720. 4

Question Number : 61 Question Id : 7108701681 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a hybrid black pepper variety?

1. Panniyur 3
2. Panniyur 6
3. Panniyur 7
4. Panchami

Options :

- 7108706721. 1
- 7108706722. 2
- 7108706723. 3
- 7108706724. 4

Question Number : 62 Question Id : 7108701682 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Lanka ramakrishnae of black pepper is commonly known as

1. Scale insect
2. Top Shoot borer
3. Pollu beetle
4. Coconut scale beetle

Options :

- 7108706725. 1
- 7108706726. 2
- 7108706727. 3
- 7108706728. 4

Question Number : 63 Question Id : 7108701683 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following cinnamon varieties yields the highest (as a percentage) cinnamaldehyde in bark oil?

1. Konkan Tej
2. Navashree
3. Nithyashree
4. Sugandhini

Options :

- 7108706729. 1
- 7108706730. 2
- 7108706731. 3
- 7108706732. 4

Question Number : 64 Question Id : 7108701684 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a dwarf rootstock of apple ?

1. M-9
2. M-26
3. M-106
4. Merton-793

Options :

7108706733. 1
7108706734. 2
7108706735. 3
7108706736. 4

Question Number : 65 Question Id : 7108701685 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Gauthami Ganga, a tender nut-producing coconut variety has been released in

1. Andhra Pradesh
2. Kerela
3. Karnataka
4. West Bengal

Options :

7108706737. 1
7108706738. 2
7108706739. 3
7108706740. 4

Question Number : 66 Question Id : 7108701686 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following types of oil palm has the thickest shell?

1. Dura
2. Pisifera
3. Tenera
4. DXP hybrid

Options :

- 7108706741. 1
- 7108706742. 2
- 7108706743. 3
- 7108706744. 4

Question Number : 67 Question Id : 7108701687 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following palm types is the most primitive?

1. Arecanut
2. Coconut
3. Palmyrah
4. Oil palm

Options :

- 7108706745. 1
- 7108706746. 2
- 7108706747. 3
- 7108706748. 4

Question Number : 68 Question Id : 7108701688 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Tea cultivation was first introduced in India in the year

1. 1832
2. 1846
3. 1859
4. 1883

Options :

7108706749. 1
7108706750. 2
7108706751. 3
7108706752. 4

Question Number : 69 Question Id : 7108701689 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following varieties of Ajwain is the most late-maturing?

1. BEN-2
2. GA-1
3. Pant Ruchika
4. RA-1-80

Options :

7108706753. 1
7108706754. 2
7108706755. 3
7108706756. 4

Question Number : 70 Question Id : 7108701690 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a variety of Cashew?

1. Priyanka
2. Bhaskara
3. Kanaka
4. Nalbari

Options :

7108706757. 1
7108706758. 2
7108706759. 3
7108706760. 4

Part C Vegetable Science and Olericulture

Section Id :	71087042
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087042
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108701691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following vegetables has cuboidal shape pollen grains?

1. Tomato
2. Basella
3. Drumstick
4. Lablab Bean

Options :

7108706761. 1
7108706762. 2
7108706763. 3
7108706764. 4

Question Number : 72 Question Id : 7108701692 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Kranz anatomy is present in which one of the following vegetables?

1. Portulaca
2. Tomato
3. Cabbage
4. Brinjal

Options :

7108706765. 1
7108706766. 2
7108706767. 3
7108706768. 4

Question Number : 73 Question Id : 7108701693 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The genus *Abelmoschus* is distinct from *Hibiscus* as it has

1. Teethed calyx
2. Permanent calyx
3. Deciduous calyx
4. Cuboidal pollen grain

Options :

- 7108706769. 1
- 7108706770. 2
- 7108706771. 3
- 7108706772. 4

Question Number : 74 Question Id : 7108701694 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Gynoecious line of bitter melon has been developed for utilization in hybrid development. What is the inheritance of gynoecium in this line?

1. Single dominant gene
2. Two complementary genes
3. Single recessive gene
4. Multiple genes

Options :

- 7108706773. 1
- 7108706774. 2
- 7108706775. 3
- 7108706776. 4

Question Number : 75 Question Id : 7108701695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The level of light at which the net photosynthesis rate is zero is called

1. Photosynthesis saturation point
2. Light saturation point
3. Respiration saturation point
4. Light compensation point

Options :

- 7108706777. 1
- 7108706778. 2
- 7108706779. 3
- 7108706780. 4

Question Number : 76 Question Id : 7108701696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following QTLs is associated with fruit size of tomato and is considered as the first cloned QTL from vegetable crops?

1. Fw2.2
2. Fw1.1
3. Mi
4. Ty1

Options :

- 7108706781. 1
- 7108706782. 2
- 7108706783. 3
- 7108706784. 4

Question Number : 77 Question Id : 7108701697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Type of pea mutant in which inflorescence is found in clusters at the terminal end

1. Acacia
2. Fasciation
3. Afilia
4. Papilla

Options :

7108706785. 1
7108706786. 2
7108706787. 3
7108706788. 4

Question Number : 78 Question Id : 7108701698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Mi gene for nematode resistance in tomato is located on

1. Chromosome 5
2. Chromosome 2
3. Chromosome 11
4. Chromosome 6

Options :

7108706789. 1
7108706790. 2
7108706791. 3
7108706792. 4

Question Number : 79 Question Id : 7108701699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the recently notified variety of Indian Spinach (*Basella alba*)?

1. Arka Poi-1
2. Pusa Poi-1
3. Kashi Poi-1
4. Swarna Poi-1

Options :

7108706793. 1
7108706794. 2
7108706795. 3
7108706796. 4

Question Number : 80 Question Id : 7108701700 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the botanical varieties of lettuce have excellent shipping and handling abilities?

1. Cos type
2. Butter head type
3. Celery lettuce
4. Crisp head type

Options :

7108706797. 1
7108706798. 2
7108706799. 3
7108706800. 4

Question Number : 81 Question Id : 7108701701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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: Cucurbits have a high degree of inbreeding depression while onion has low inbreeding depression

Reason R: The degree of inbreeding depression is based on the genetic load of dominant and recessive genes, determining the heterozygous balance of a crop species

In the 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 :

- 7108706801. 1
- 7108706802. 2
- 7108706803. 3
- 7108706804. 4

Question Number : 82 Question Id : 7108701702 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: The intergeneric cross between cauliflower (*Brassica oleracea* var. *botrytis*) and radish (*Raphanus sativus*) is fairly successful only when the former acts as the male parent

Reason R: The failure of the above reciprocal cross is due to the inability of radish pollen to penetrate the style of the cauliflower

In the 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 :

- 7108706805. 1
- 7108706806. 2
- 7108706807. 3
- 7108706808. 4

Question Number : 83 Question Id : 7108701703 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: The meiosis in autotetraploid involves the partitioning of 8 chromatids during meiosis I into 4 pairs.

Reason R: Each pair corresponds to one of the 4 gametes produced by each sporocyte.

In the 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 :

7108706809. 1

7108706810. 2

7108706811. 3

7108706812. 4

Question Number : 84 Question Id : 7108701704 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: Marker-assisted selection can be utilized for introgression of genes from wild germplasm to develop disease-resistant cultivars

Reason R: The foreign genes can be transferred into the plant by co-cultivation with *Agrobacterium tumefaciens*

In the 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 :

- 7108706813. 1
- 7108706814. 2
- 7108706815. 3
- 7108706816. 4

Question Number : 85 Question Id : 7108701705 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: The typical flavour of cauliflower curd is due to the presence of glucosinolates

Reason R: They are hydrolysed by glucanase to give volatile products mainly nitriles and isothiocyanates

In the 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 :

7108706817. 1

7108706818. 2

7108706819. 3

7108706820. 4

Question Number : 86 Question Id : 7108701706 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: Garden peas with wrinkled seeds are sweeter than round seeded field peas

Reason R: In wrinkled pea, there is an insertion mutation in the middle of the starch branching enzyme that makes this enzyme non-functional

In the 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 :

7108706821. 1

7108706822. 2

7108706823. 3

7108706824. 4

Question Number : 87 Question Id : 7108701707 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: RNAi is a method of silencing gene expression and considered as an important tool for functional genomics

Reason R: The silencing of a gene is a result of degradation of RNA into short RNA which activates ribonucleases to target homologous m RNA

In the 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 :

- 7108706825. 1
- 7108706826. 2
- 7108706827. 3
- 7108706828. 4

Question Number : 88 Question Id : 7108701708 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The difference of mean phenotypic value between the offspring of selected parents and whole of the parental generation before a selection is called selection differential

Statement II: Response to selection is the mean phenotypic value of individuals selected as parents expressed as a deviation from the population mean.

In the 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 :

7108706829. 1

7108706830. 2

7108706831. 3

7108706832. 4

Question Number : 89 Question Id : 7108701709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: Silver Nitrate @200-300 mg/L⁻¹ is used to maintain gynoecious lines in cucumber

Reason R: Silver nitrate induces male flower in gynoecious line

In the 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 :

7108706833. 1

7108706834. 2

7108706835. 3

7108706836. 4

Question Number : 90 Question Id : 7108701710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: Garden pea is highly self-pollinated and significant heterosis has also been reported but could not be exploited commercially

Reason R: Genetic mechanism like sterility could not be exploited due to cleistogamous flower structure

In the 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 :

- 7108706837. 1
- 7108706838. 2
- 7108706839. 3
- 7108706840. 4

Question Number : 91 Question Id : 7108701711 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical 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: Sowing in the month of June-July is preferred for seed production of bottle gourd in north India

Reason R: The seed maturity does not coincide with monsoon rains.

In the 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 :

7108706841. 1

7108706842. 2

7108706843. 3

7108706844. 4

Question Number : 92 Question Id : 7108701712 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Recently developed Pusa Parthenocarpic Cucumber-6 is a monoecious variety

Statement II: Pusa Parthenocarpic Cucumber-6 is recommended for greenhouse only

In the 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 :

7108706845. 1

7108706846. 2

7108706847. 3

7108706848. 4

Question Number : 93 Question Id : 7108701713 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Bulb colour in onion is governed by five genes

Statement II: The dominant allele I inhibits the colour development and bulbs become white

In the 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 :

7108706849. 1

7108706850. 2

7108706851. 3

7108706852. 4

Question Number : 94 Question Id : 7108701714 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Protein-rich potato has been developed by genetic engineering

Statement II: The foreign Ama 1 gene has been taken from *Amaranthus tricolour*

In the 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 :

7108706853. 1

7108706854. 2

7108706855. 3

7108706856. 4

Question Number : 95 Question Id : 7108701715 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Powdery mildew disease resistance in garden pea is governed by monogenic recessive gene only

Statement II: Two recessive genes and one dominant gene have been reported for powdery mildew disease resistance in garden pea

In the 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 :

7108706857. 1

7108706858. 2

7108706859. 3

7108706860. 4

Question Number : 96 Question Id : 7108701716 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Brinjal and tomato both belong to family Solanaceae but the former is often cross-pollinated while the latter is highly self-pollinated

Statement II: Heterostyly in brinjal favours cross-pollination to a certain extent besides anther dehiscence all along anther cone favours self-pollination in tomato

In the 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 :

- 7108706861. 1
- 7108706862. 2
- 7108706863. 3
- 7108706864. 4

Question Number : 97 Question Id : 7108701717 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Mulching helps in conserving soil moisture and weed control

Statement II: Black plastic mulch is less effective for weed control as compared to transparent mulch

In the 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 :

7108706865. 1

7108706866. 2

7108706867. 3

7108706868. 4

Question Number : 98 Question Id : 7108701718 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Nutrient film technique (NFT) is a hydroponic system where plants are directly exposed to nutrient solution

Statement II: Hydroponic system is classified as closed and open system and nutrient film technique (NFT) is an example of closed system

In the 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 :

7108706869. 1

7108706870. 2

7108706871. 3

7108706872. 4

Question Number : 99 Question Id : 7108701719 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following statement (s) is/are correct?

- A. In plug tray nursery raising, the ratio of cocopeat :perlite: vermiculite should be 1:1:1
- B. Plug tray nursery raising is commercially used for tomato, brinjal and cucurbits
- C. The ideal ratio of cocopeat, perlite and vermiculite provides better aeration and growing conditions
- D. Mortality of plants in the field is low when the plug tray raised seedlings are transplanted
- E. Plug tray raised nursery CANNOT be used for grafting of vegetables

Choose the correct answer from the options given below

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

Options :

7108706873. 1

7108706874. 2

7108706875. 3

7108706876. 4

Question Number : 100 Question Id : 7108701720 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Capitulum	I. Knolkhol
B. Glomerule	II. Lettuce
C. Cymose	III. Amaranth
D. Racemose	IV. Sweet Potato

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

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

Options :

7108706877. 1
7108706878. 2
7108706879. 3
7108706880. 4

Question Number : 101 Question Id : 7108701721 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Okra	I. India
B. Garden pea	II. Central Asia
C. Spinach	III. Ethiopia
D. Brinjal	IV. Africa

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

Options :

- 7108706881. 1
- 7108706882. 2
- 7108706883. 3
- 7108706884. 4

Question Number : 102 Question Id : 7108701722 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. ms-1	I. Chilli
B. Or	II. Tomato
C. Pat-2	III. Cauliflower
D. ms-10	IV. Muskmelon

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

Options :

- 7108706885. 1
- 7108706886. 2
- 7108706887. 3
- 7108706888. 4

Question Number : 103 Question Id : 7108701723 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Lycopene	I. Chilli
B. Beta cyanin	II. Carrot
C. Beta carotene	III. Beet Root
D. Capsanthin	IV. Watermelon

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

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

Options :

- 7108706889. 1
- 7108706890. 2
- 7108706891. 3
- 7108706892. 4

Question Number : 104 Question Id : 7108701724 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Make the correct sequence of steps involved in the development of transgenic

- A. Isolation and cloning of a gene
- B. Transformation of plant
- C. Designing the gene construct
- D. Regeneration of transgenic plant
- E. Selection of transgenic

Choose the correct answer from the options given below:

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

Options :

- 7108706893. 1
- 7108706894. 2
- 7108706895. 3
- 7108706896. 4

Question Number : 105 Question Id : 7108701725 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange the fruit maturity stages of tomato in ascending order

- A. Fully ripe stage
- B. Turning stage
- C. Mature green stage
- D. Pink stage
- E. Hard ripe stage

Choose the correct answer from the options given below

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

Options :

- 7108706897. 1
- 7108706898. 2
- 7108706899. 3
- 7108706900. 4

Question Number : 106 Question Id : 7108701726 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which variety of muskmelon, fruits do NOT separate from the vine even after attaining full maturity?

- 1. Pusa Madhurima
- 2. Pusa Sarda
- 3. Kashi Madhu
- 4. Pusa Madhura

Options :

- 7108706901. 1

7108706902. 2

7108706903. 3

7108706904. 4

Question Number : 107 Question Id : 7108701727 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange the following steps of hybrid production in the correct sequence

- A. Making crosses and testing of combining ability
- B. Selection of parents
- C. Development and multi -location testing of hybrids
- D. Developments of inbred lines
- E. Commercial seed production of hybrids

Choose the correct answer from the options given below

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

Options :

7108706905. 1

7108706906. 2

7108706907. 3

7108706908. 4

Question Number : 108 Question Id : 7108701728 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A patent was claimed recently for the development of closterovirus resistant melon plant. The resistance gene was introgressed from

1. *Cucumis melo* var. *reticulatus*
2. *Cucumis melo* var. *inodorous*
3. *Cucumis melo* var. *flexiosus*
4. *Cucumis melo* var. *agristis*

Options :

7108706909. 1
7108706910. 2
7108706911. 3
7108706912. 4

Question Number : 109 Question Id : 7108701729 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as a manmade species of genus *Cucumis*?

1. *Cucumis anguria*
2. *Cucumis melo*
3. *Cucumis hytivus*
4. *Cucumis hystrix*

Options :

7108706913. 1
7108706914. 2
7108706915. 3
7108706916. 4

Question Number : 110 Question Id : 7108701730 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Seed protein 'Ricine' which inhibits growth of HIV in humans, is present in

1. Sweet potato
2. Bitter Gourd
3. Tomato
4. Lettuce

Options :

- 7108706917. 1
- 7108706918. 2
- 7108706919. 3
- 7108706920. 4

Question Number : 111 Question Id : 7108701731 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Black leg disease of cauliflower is caused by

1. *Phoma lingam*
2. *Alternaria brassicae*
3. *Xanthomonas campestris*
4. *Sclerotinia sp.*

Options :

- 7108706921. 1
- 7108706922. 2
- 7108706923. 3
- 7108706924. 4

Question Number : 112 Question Id : 7108701732 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Deficiency symptoms of nitrogen first appear on younger leaves

Statement II: Nitrogen is classified as a mobile element in plants

In the 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 :

- 7108706925. 1
- 7108706926. 2
- 7108706927. 3
- 7108706928. 4

Question Number : 113 Question Id : 7108701733 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nuclear polyhedrosis viruses are effective against

1. *Heliothis armigera*
2. *Phytophthora infestans*
3. *Xanthomonas campestris*
4. *Rhizoctinia* sp.

Options :

- 7108706929. 1
- 7108706930. 2
- 7108706931. 3

7108706932. 4

Question Number : 114 Question Id : 7108701734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following *Cucurbita* species is resistant to powdery mildew?

1. *C. moschata*
2. *C. maxima*
3. *C. lundeliana*
4. *C. pepo*

Options :

- 7108706933. 1
- 7108706934. 2
- 7108706935. 3
- 7108706936. 4

Question Number : 115 Question Id : 7108701735 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What is the genome size of tomato?

1. 850 MB
2. 950 MB
3. 1050 MB
4. 1150 MB

Options :

- 7108706937. 1
- 7108706938. 2
- 7108706939. 3
- 7108706940. 4

Question Number : 116 Question Id : 7108701736 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Zoning	I. Potato
B. Cavity spot	II. Radish
C. Pithiness	III. Carrot
D. Hollow heart	IV. Beet root

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

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

Options :

- 7108706941. 1
- 7108706942. 2
- 7108706943. 3
- 7108706944. 4

Question Number : 117 Question Id : 7108701737 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Bud necrosis virus	I. Leafhopper
B. Bhendi yellow vein mosaic virus	II. Aphid
C. Phytoplasma	III. Whitefly
D. Potato virus	IV. Thrips

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

Options :

- 7108706945. 1
- 7108706946. 2
- 7108706947. 3
- 7108706948. 4

Question Number : 118 Question Id : 7108701738 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Kashi Sheetal	I. Bottle Gourd
B. Pusa Sona	II. Okra
C. Kashi Kirti	III. Indian Bean
D. Kashi Shirshthi	IV. Onion

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

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

Options :

- 7108706949. 1
- 7108706950. 2
- 7108706951. 3
- 7108706952. 4

Question Number : 119 Question Id : 7108701739 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Standard deviation of sample mean is known as

1. Standard error
2. Sample variance
3. Coefficient of variation
4. Critical difference

Options :

- 7108706953. 1
- 7108706954. 2
- 7108706955. 3

7108706956. 4

Question Number : 120 Question Id : 7108701740 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a correct match of phytoalexin?

1. Garden pea-Fulvin
2. French bean-Pisatin
3. Chilli-Capsidiol
4. Cowpea-Zeaxanthin

Options :

7108706957. 1

7108706958. 2

7108706959. 3

7108706960. 4