

PREVIEW QUESTION BANK

Module Name : Vegetable Science - 12-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7 207

4.0 1.00

Given below are two statements:

Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time,

Statement (II): Weather is a condition of atmosphere at a given place and at a given time

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

8 208

4.0 1.00

The local name of cyclone in Phillippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alyosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
21	1401	Which of the following vegetable crop is medium deep rooted? 1. Onion 2. Asparagus 3. Chilli 4. French bean A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	1402	The deficiency of which nutrient cause cavity spot of carrot? 1. B 2. Ca 3. Mo 4. Zn A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	1403		4.0	1.00

Match List-I with List-II (Major growing state with respective vegetable crops)

List-I	List-II
(State)	(Crop)
(A). Brinjal	(I). Gujarat
(B). Cassava	(II). Uttar Pradesh
(C). Potato	(III). Tamil Nadu
(D). Beans	(IV). West Bengal

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

24	1404	What is the seed rate of hybrids of tomato (g/ha) which is required in raised bed mehods?	4.0	1.00
		1. 50-75 2. 75-100 3. 100-125 4. 150-200		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

25	1405		4.0	1.00
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Given below are two statements:

Statement (I): Elongated root or forking disorder of radish is characterized by dark spots usually appear on the root.

Statement (II): This disorder is the result of excess moisture during root development and also occurs in heavy soils due to soil compactness.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

26	1406	The seed plot technique (SPT) of potato is specifically developed for the production of: 1. Virus free seed tubers in plains 2. Virus free main crop of potato in plains 3. Nursery raising of true potato seeds in small plots 4. Virus free seed tuber production in hill region A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

27	1407	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Temperate carrots form roots both under temperate and tropical climates but produce seeds only under temperate condition. Reason (R) : Temperate carrots require low temperature of 5 - 8 °C for 40 - 60 days for bolting and flowering. In light of the above statements, choose the <i>correct</i> 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.	4.0	1.00
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A1 : 1
A2 : 2
A3 : 3
A4 : 4

Objective Question

281408

4.01.00

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

List-I	List-II
Vegetable Crop	Variety
(A). Carrot	(I). Pusa Meghna
(B). Cauliflower	(II). Pusa Vrishti
(C). Garden pea	(III). Arka Sujat
(D). Ridge gourd	(IV). Pusa Shree

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

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

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

3. (A) - (I), (B) - (VI), (C) - (III), (D) - (II)

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29	1409			4.0	1.00
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Identify the correct sequence of the varieties based on maturity groups in cauliflower i.e.early to late

- A. Pusa Sharad
- B. Pusa Meghna
- C. Pusa Snowball K-1
- D. Pusa Paushja
1. (A), (B), (C), (D).
2. (B), (A), (D), (C).
3. (B), (A), (C), (D).
4. (A), (B), (D), (C).

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30 1410

4.0 1.00

What is the desirable thickness of plastic mulches for use in horticultural crops?

1. 75-100 micron
2. 50 -75 micron
3. 10-25 micron
4. 150-200 micron

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 1411

4.0 1.00

Which form of the chimera is considered most stable?

1. Sectorial
2. Periclinal
3. Mericlinal
4. Scattered Sectorial

A1 : 1

A2 : 2

		A3 : 3		
		A4 : 4		
Objective Question				
32	1412	Which of the following pigment is responsible for the pink colouration in guava pulp? 1. Anthocyanin 2. Xanthophyll 3. Delpididn 4. Lycopene A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
33	1413	Mesophyll collapse is a physiological disorder of 1. Litchi 2. Longan 3. Grapefruit 4. Rambutan A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	1414	Which of the following Indian institute, recently completed the genome sequencing of jamun tree? 1. NABI, Mohali 2. IISER, Bhopal 3. NIPB, New Delhi 4. CSIR-IHBT, Palampur A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

35	1415	The term albedo is associated with 1. Citrus 2. Mango 3. Apple 4. Pear A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

36	1416	Which of the following Indian state has recently got GI tag for growing Mankurad Mango? 1. Maharastra 2. Uttar Pradesh 3. Kerala 4. Goa A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	1417	Alemow is a rootstock used for which fruit crop? 1. Mango 2. Citrus 3. Guava 4. Sapota A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

38	1418	Which of the the following fruit crop tolerates extreme soil P^H (up to 10)? 1. Jamun 2. Banana 3. Jackfruit 4. Mango A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

39	1419	The word "Crab" is associated with 1. Banana 2. Apple 3. Citrus 4. Walnut A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

40	1420	Fig is commercially propagated through 1. Offsets 2. Runner 3. Sucker 4. Hardwood cutting A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

41	1421	Litchi fruit reaches optimum harvest maturity when total soluble solids : titratable acidity ratio reaches 1. 10 2. 20 3. 30 4. 40 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

42	1422	Which of the following mechanical textural attributes denote the response of a fruit/vegetable to different types of forces? (A). Mealiness (B). Crunchiness (C). Cohesiveness (D). Grittiness Choose the correct answer from the options given below: 1. (A) and (D) only. 2. (A) and (B) only. 3. (B) and (C) only. 4. (A), (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

43	1423	Which of the following is NOT a postharvest quarantine treatment? 1. Vapour heat treatment 2. Irradiation treatment 3. Sulphitation treatment 4. Hot water treatment A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

44 1424

4.0 1.00

Which of the following chemical is **NOT** used for in-package 'humidity buffering'?

1. Ethoxyquin
2. Potassium chloride
3. Sorbitol
4. Bentonite

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

45 1425

4.0 1.00

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

List-I	List-II
(Commodity)	(Effects of ethylene)
(A). <i>Daucus carota</i>	(I). Toughness
(B). <i>Dianthus caryophyllus</i>	(II). Isocoumarin formation
(C). <i>Asparagus officinalis</i>	(III). Russet spotting
(D). <i>Lactuca sativa</i>	(IV). Sleepiness

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question				
46	1426	Which of the following fruit is widely used for minimal processing? 1. Pomegranate 2. Passion fruit 3. Kiwifruit 4. Apple A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
47	1427	Which of the following chemical is used in 'Grape Guard'? 1. Potassium permanganate 2. Sodium metabisulfite 3. Potassium metabisulfite 4. Calcium sulfate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
48	1428	Which part of periwinkle herb is a rich source of indole alkaloid 'ajmalicine'? 1. Leaves 2. Flower 3. Stem 4. Root A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
49	1429		4.0	1.00

Given below are two statements:

Statement (I): The most common visible chilling injury symptom in fruit is skin pitting.

Statement (II): Intermittent warming of produce for a short period aggravates the incidence of chilling injury.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

50 1430

4.0 1.00

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

List-I	List-II
(Product)	(Maximum moisture content)
(A). Pistachio nut	(I). 3 per cent
(B). Raisins	(II). 15 per cent
(C). Dates	(III). 7 per cent
(D). Grated Desiccated Coconut	(IV). 30 per cent

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

51	1431	The causal organism of Inflorescence blight disease of marigold is 1. <i>Rhizoctonia solani</i> 2. <i>Alternaria zinniae</i> 3. <i>Leveillula taurica</i> 4. <i>Fusarium oxysporum</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	1432	Which of the following is the quickest method of lawn establishment? 1. Seeding 2. Dibbling 3. Turf plastering 4. Turfing A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	1433	A special kind of dried floral arrangement, which is a mixture of sweet smelling leaves, spices, seeds, roots and distilled essential oils filled in sachets is known as 1. Potpourris 2. Buttonhole 3. Veni 4. Garland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
54	1434		4.0	1.00

'Manali' is a mutant variety of which of the following flower crop?

1. Chrysanthemum
2. Dahlia
3. Rose
4. Gladiolus

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

55 1435

According to Society of American Florists (SAF) what does Blue, Red and Green represents?

1. Disease index
2. Harvest index
3. Storage parameters
4. Grade

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

56 1436

Which of the following is a non-fragrant loose flower crop?

1. *Jasminum gradiflorum*
2. *Polianthes tuberosa*
3. *Crossandra infundibuliformis*
4. *Tabernaemontana divaricata*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

57 1437

4.0 1.00

Which of the following method uses an ideal solvent Carbon dioxide (CO₂) for extracting essential oils from flower crops?

1. Expression
2. Enfleurage
3. Supercritical Fluid Extraction
4. Maceration

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

58 1438

Which of the following orchid genus is known by name Lady's Slippers Orchid?

1. *Cymbidium*
2. *Paphiopedilum*
3. *Phalaenopsis*
4. *Cattleya*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

59 1439

Which of the following ornamental is highly suited for hedge purposes?

1. *Iresene herbstii*
2. *Wadelia triloba*
3. *Clerodendron inerme*
4. *Alternanthera amabilis*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

60 1440

4.0

1.00

		'Star Gazer' is a variety of Lilium belongs to which of the following group? 1. Asiatic lily 2. Oriental lily 3. LA (Longiflorum × Asiatic) 4. LO (Longiflorum × Oriental) A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
61	1441	Shivalik is a variety of 1. Mint 2. Isabgol 3. Opium Poppy 4. Aloe vera A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	1442	The chief medicinal compound present in the roots of Safed musli is 1. Reserpine 2. Ajmolini 3. Saponin 4. Terpene A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	1443		4.0	1.00

Senna belongs to family

1. Rubiaceae
2. Fabaceae
3. Apocynaceae
4. Lamiaceae

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

64 1444

4.0 1.00

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

List-I	List-II
(Crop)	(Family)
(A). Lemongrass	(I). Araceae
(B). Basil	(II). Oleaceae
(C). Acorus	(III). Lamiaceae
(D). Jasmine	(IV). Poaceae

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

65 1445

4.0 1.00

Which of the following statement(s) is/are correct with respect to *Justicia adhatoda* (*Adhatoda vasica*)?

- (A) It belongs to the family Acanthaceae.
- (B) India is considered as the native of this crop.
- (C) Botanically is an herb.
- (D) The plant regenerates primarily through vegetative means.
- (E) The principle alkaloid found from vasaka is vasicine.
- (F) Minor alkaloids contain andrographolides.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66	1446	The Term "Arabica" is associated with which crop? 1. Black pepper 2. Coffee 3. Oil palm 4. Tea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

67	1447	Which of the following Coconut variety is suitable for tender nut? 1. COD 2. WCT 3. ECT 4. MYD	4.0	1.00
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		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
68	1448	Allyl-propyl disulphide is responsible for the pungency of 1. Mustard 2. Leek 3. Garlic 4. Onion A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
69	1449	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Skiffing is an important type of pruning and mostly practised in tea. Reason (R): Skiffing is mostly done for induction of more vegetative growth. In light of the above statements, choose the <i>correct</i> 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
70	1450		4.0	1.00

		Given below are two statements: Statement (I): Tea mosquito bug is an important pest of tea. Statement (II): Tea mosquito bug is also an important pest of cashewnut. In light of the above statements,choose the <i>most appropriate</i> 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
71	1000651	Which of the following is a non-pungent capsaicinoid found in sweet pepper? 1. Capsanthin 2. Dihydrocapsaicin 3. Capsaicin 4. Capsiate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
72	1000652		4.0	1.00

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

List-I	List-II
(Crop)	(Substance)
(A). Cassava	(I). Cholinesterase inhibitors (HCN)
(B). Yams	(II). Phytic acid
(C). Pumpkin	(III). Cyanogenic glucoside
(D). Pea	(IV). Dioscorine

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73 1000653

4.0 1.00

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

Assertion (A) : Light impacts both photosynthetic activity and morphology of individual leaves and of plant canopies.

Reason (R) : At higher light, leaves are larger wherein leaf area increases because of cells having a larger surface area rather than by more cells per leaf.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question				
74	1000654	How much onion seed is required to raise enough sets to plant one hectare area of kharif onion? 1. 2-4.5 kg 2. 5-7.5 kg 3. 8-10.5 kg 4. 11-13.5 kg A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
75	1000655	If the rate of assimilation per unit area of leaf surface and the rate of respiration remain constant, and the size of the leaf surface bears a relation to the dry weight of the whole plant, then the rate of production of new material, as measured by the dry weight, will follow which of the following interest law ? 1. Compound Interest Law 2. Cumulative interest 3. Simple interest 4. Fixed interest A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
76	1000656	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The primary cause of graft incompatibility in interspecific Cucurbita sp is the occurrence of hormonal imbalances between auxin and ethylene, in the root system followed by tissue disintegration. Reason (R) : The basipetal flow of excess auxin at graft union block the formation of ethylene, consequently leading to cellular juvenility. In light of the above statements, choose the <i>correct</i> 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.	4.0	1.00

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
77	1000657	Full slip stage of harvest maturity is NOT found in which cultivar of muskmelon? 1. Kashi Madhu 2. Arka Rajhans 3. Durgapura Madhu 4. Hara Madhu A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	1000658	Which of the following enzymes contribute to the development of 'off aromas' in stored vegetables? (A). Lipoxygenase (B). Peroxidase (C). Sulforaphanase (D). Cysteine lyase Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
79	1000659		4.0	1.00

Which of the following is largely a plant growth inhibitor but is also involved in some growth promotion activities?

- (A). Auxins
- (B). Gibberellins
- (C). Cytokinin
- (D). Absciscic acid
- (E). Ethylene

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

80 1000660

4.0 1.00

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

List-I	List-II
(Crop)	(Scientific name)
(A). Sword bean	(I). <i>Pastinaca sativa</i>
(B). Parsnip	(II). <i>Psophocarpus tetragonolobus</i>
(C). Winged Bean	(III). <i>Trichosanthes dioica</i>
(D). Pointed Gourd	(IV). <i>Canavalia gladiata</i>

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81	1000661	The term 'Blown' is associated with which crop? 1. Broccoli 2. Brussels sprout 3. Cauliflower 4. Kale A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82

1000662

4.0

1.00

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

List-I	List-II
(Vegetable)	(Edible part)
(A). Artichoke	(I). Petiole
(B). Celery	(II). Swollen root tuber
(C). Sweet potato	(III). Swollen leaf base
(D). Leek	(IV). Flower bud

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

83	1000663	What should be the diameter of fruits of round and scallop types of squashes for speciality market? 1. < 4 cm 2. 5.5-6 cm 3. 6.5-7 cm 4. >7.5 cm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84	1000664	Inheritance of growth habit in French bean is determined by three genes (L_A_T_/lat). Which among the following determines bush type growth habit? 1. L_ / AA/ T_ 2. ll/ A_ / tt 3. LL/ aa/ latlat 4. ll/ aa/ tt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1000665	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Deficiency symptoms of Ca, Zn, Mo and B first appear on the younger leaves. Reason (R) : They are mobile elements and move up the plant in basipetal and acropetal direction through xylem and phloem that result in their deficiency symptoms to be appear first on new leaves In light of the above statements, choose the <i>correct</i> 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.	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86	1000666	Which of the following statements are TRUE with respect to broccoli cultivation? (A). The temperature of 20-25 °C is optimum for vegetative growth and 15-20 °C for heading. (B). Soil pH of 7.0-8.5 is optimum. (C). Palam Kanchan is yellowish green heading type variety. (D). Brown bead is a physiological disorder associated with high K level. (E). Very short shelf-life due to high respiration and transpiration rate. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (E) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1000667	Savoy cabbage was originated earlier in Italy from which of the following crop? 1. White Cabbage 2. Portugese Kale 3. Couve Broccoli 4. Calabrese Broccoli A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1000668	Lettuce belongs to which of the following tribe? 1. Cucumerneae 2. Allae 3. Cicoreae 4. Melothrieae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1000669	Given below are two statements: Statement (I): Early cauliflower varieties grown at low temperature conditions result into quick transformation to curding without proper vegetative phase, that cause buttoning. Statement (II): Late cultivars when grown early in high temperature grow vegetatively till getting optimum low temperature for curding and result in optimum sized curds. In light of the above statements,choose the <i>most appropriate</i> 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

90	1000670		4.0	1.00
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Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) :

Potato plant tissues commonly show increase in sugar concentration at temperature below 10°C as a result potato tubers become undesirably sweeter when stored in cold storage at 4-5°C.

Reason (R) :

At low temperature, enzymatic conversion of sugar to starch and sugar to $\text{CO}_2 + \text{H}_2\text{O} + \text{Heat}$ is reduced drastically as compared to enzymatic conversion of starch and sugar.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91 1000671

4.0 1.00

Match **List-I** with **List-II** (Match the type of lettuce variety with its characteristic)

List-I	List-II
(lettuce variety/type)	(Characteristics)
(A). Loose leaved variety	(I). Cephalata
(B). Semi heading	(II). laxa
(C). Fluffy topped heading	(III). dissoluta
(D). Heading	(IV). imfareta

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

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

A1 : 1

A2 : 2

		A3 : 3		
		A4 : 4		
Objective Question				
92	1000672	Which of the following wild species of Solanum has strongly exerted stigma and result in outbreeding alongwith self-incompatibility? 1. <i>Solanum chilense</i> 2. <i>Solanum chessmanii</i> 3. <i>Solanum pimpinellifolium</i> 4. <i>Solanum chmielewskii</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	1000673	The staminate flower development in bitter gourd can be promoted by the application of cycocel at 1. 10-50 ppm 2. 50-200 ppm 3. 200-400 ppm 4. 400-500 ppm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
94	1000674		4.0	1.00

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

Assertion (A) :

Bioavailability of lycopene in cooked or processed tomatoes is greater than in raw.

Reason (R) :

All trans form of lycopene isomers are more bioavailable than cis isomers.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

95 1000675

Which of the followings are pulling type varieties of amaranth?

- (A). Arka Arunima
- (B). Arka Sugan
- (C). Arka Varna
- (D). Arka Samraksha

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

96 1000676

4.0 1.00

On the basis of level of inbreeding depression, beetroot is classified into which of the following group?

1. High inbreeding depression
2. Medium inbreeding depression
3. Low inbreeding depression
4. Lack of inbreeding depression

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

97	1000677	The recurrent selection method in cross-pollinated vegetable crops meet which of the following aims? (A). To generate high level of genetic variability within the population. (B). To reduce the frequency of desirable genes. (C). To break undesirable linkage in the population. (D). To increase desirable gene flow to have more recombinations. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (C) and (D) only. 3. (A) and (B) only. 4. (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1000678	The performance of synthetic varieties is usually lower than that of single cross hybrids because..... 1. Exploit only GCA 2. Exploit only SCA 3. Poor adaptive to variable environment. 4. Result in rapid inbreeding depression. A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

99	1000679
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4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Vegetable Crop	Variety
(A). Garden pea	(I). Sheetal
(B). Ridge gourd	(II). Pusa Supriya
(C). Cucumber	(III). Him Palam-I
(D). Sponge gourd	(IV). Arka Sujata

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

100	1000680
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4.0	1.00
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With respect to hybrid development in chilli, which the following statement(s) is/are **CORRECT**:

- (A). The GMS line MS-12 was used for the development of CH-1 and CH-3.
- (B). Peterson (1958) reported first CMS system in 'PI 164835', an introduction from India.
- (C). Peterson cytoplasm (CGMS) is stable during temperature fluctuations hence, widely used in hybrid development.
- (D). IIHR developed commercial hybrids using male cytoplasm.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101	1000681	In embryo abortion betweento..... days after pollination is the main barrier in the distant hybridization.	4.0	1.00
		1. 6 to 25 days 2. 5-7 days 3. 27-36 days 4. 24-48 hours		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

102	1000682	<i>Solanum gilo</i> , a wild species of brinjal is found tolerant to:	4.0	1.00
		1. Shoot and Fruit Borer only 2. Little leaf disease only 3. Both shoot and fruit borer and little leaf 4. Aphid		
		A1 : 1		
		A2 : 2		

A3 : 3

A4 : 4

Objective Question

103	1000683	A buffer zone of m width is to be left from all around the organic plot. 1. 50 meter 2. 25 meter 3. 100 meter 4. 500 meter A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

104	1000684	Which of the following is/are the CORRECT options for management of red pumpkin beetle of cucurbits in organic farming? (A). Early sowing of the crop. (B). Deep ploughing after the crop harvest. (C). Follow clean cultivation. (D). Adopt grafting on bottle gourd. Choose the correct answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B) and (C) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

105	1000685		4.0	1.00
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Arrange the following events in time-order (old to recent events):

- (A). Seedless watermelon
- (B). Model for structure of DNA
- (C). Polymerase chain reaction
- (D). *Ogura* CMS system in radish

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

106	1000686	What is the recommended dose of <i>Beauveria bassiana</i> or <i>Metarhizium anisopliae</i> formulation for soil application to foliar insects, termites and white grubs in organic farming? 1. 2.5 kg/ha 2. 1.0 kg/ha 3. 5.0 kg/ha 4. 500 g/ha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

107	1000687	Among the following vegetable crops, which has maximum estimated genome size? 1. Cabbage 2. Cucumber 3. Spinach 4. Okra A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

108	1000688	What should be the maternal to paternal endosperm balance number (EBN) ratio in hybrid endosperm for normal endosperm development in potato? 1. 3:1 2. 12:12 3. 23:1 4. 2:1 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

109	1000689	The <i>HQT</i> gene in tomato is responsible for..... 1. Lycopene content 2. Acidity level 3. Chlorogenic acid 4. TSS factor A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

110	1000690	What could be the size of a single-pan structure of green house? 1. 250 sq meter 2. 500 sq meter 3. 100 sq meter 4. 1000 sq meter A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

111	1000691	With respect to self-incompatibility (SI) in <i>Brassica oleracea</i>, which of the following statement is INCORRECT? 1. The SI specificities are controlled S locus where, S means self-sterility. 2. Recombination occurs between SRK, SP11/SCR and SLG genes of S-haplotype. 3. SP11/SCR predominantly express in anther tapetum. 4. SRK is a female determinant. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

112	1000692	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Nutrient film technique (NFT) is an intensive crop growing system which give very high yield. Reason (R) : A thin film of nutrient solution flows continuously through the channel which favour better growth and high yield in NFT system. In light of the above statements, choose the <i>correct</i> 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

113	1000693		4.0	1.00
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A commonly grown polyhouse tomato cultivar G-600 belongs to which group?

1. Beefsteak cultivars
2. Big fruited cultivars
3. Hand or cluster type
4. Cherry tomato

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1000694

Arrange the given vegetable seeds in descending order according to their longevity in normal storage conditions.

- A. Radish
- B. Tomato
- C. Okra
- D. Onion

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

115 1000695

WHich of the following vegetable is least susceptible to freezing injury?

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

A1 : 1

A2 : 2

4.0 1.00

		A3 : 3		
		A4 : 4		
Objective Question				
116	1000696	'Nicking' in hybrid seed production of vegetables refers to..... 1. Ensuring same height of female and male parental lines. 2. Matching of the flower colour of female and male parental lines. 3. Simultaneous shedding of pollen and receptiveness of the stigma. 4. Removal of lines of male parent before harvesting of hybrid seed production. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
117	1000697	Suitable climate for seed development and ripening of the tomato is..... 1. Low relative humidity, minimal rainfall and moderate temperature. 2. Low relative humidity, high rainfall and high temperature. 3. Low relative humidity, low rainfall and low temperature. 4. High relative humidity, minimal rainfall and high temperature. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	1000698	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) :Potatoes with very high specific gravity yield 'hard chips'. Reason (R) : For preparation of quality French fries, specific gravity of potato should be 1.080. In light of the above statements, choose the <i>correct</i> 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. A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
119	1000699	Arrange the following vegetable crops from low to high rate of water loss during post-harvest handling. (A). Cabbage (B). Tomato (C). Summer squash (D). French bean Choose the correct answer from the options given below: 1. (C), (D), (B), (A). 2. (A), (B), (C), (D). 3. (B), (A), (D), (C). 4. (B), (D), (A), (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1000700		4.0	1.00

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

List-I	List-II
Crop and trait	Transgene
(A). Sweet potato (storage protein)	(I). <i>crtB</i>
(B). Carrot (Calcium content)	(II). <i>ββ</i>
(C). Lettuce (Zinc content)	(III). <i>sCAX1</i>
(D). Potato (carotenoid content)	(IV). <i>asp-1</i>

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4