

National Testing Agency

Question Paper Name :	PLANT SCIENCES 23rd Sep 2020 Shift 1 Set 2
Subject Name :	PLANT SCIENCES
Creation Date :	2020-09-23 13:49:43
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Total Marks :	480
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

PLANT SCIENCES

Group Number :	1
Group Id :	2105294
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

PLANT SCIENCES

Section Id :	2105298
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	120

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Number of Questions to be attempted :	120
Section Marks :	480
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	2105298
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 210529421 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

Cell wall of archaebacteria do not contain

1. Proteins
2. Glycoproteins
3. Polysaccharides
4. Peptidoglycans

Options :

- 2105291681. 1
- 2105291682. 2
- 2105291683. 3
- 2105291684. 4

Question Number : 2 Question Id : 210529422 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

Toxic shock syndrome, a severe infection characterized by high fever and vomiting is caused by

1. *Bacillus anthracis*
2. *Staphylococcus aureus*
3. *Streptococcus pyogenes*
4. *Enterococcus faecalis*

Options :

- 2105291685. 1
- 2105291686. 2
- 2105291687. 3
- 2105291688. 4

Question Number : 3 Question Id : 210529423 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. Chitin	I. Archaeobacteria
B. Pseudomurein	II. Gram-positive bacteria
C. O-antigens	III. Fungal cell wall
D. Teichoic acid	IV. Gram-negative bacteria

Choose the correct answer from the options given below:

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

Options :

- 2105291689. 1

2105291690. 2

2105291691. 3

2105291692. 4

Question Number : 4 Question Id : 210529424 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

Fractional sterilization is also called

1. Pasteurization
2. Tyndallization
3. Fractionation
4. Dry heat sterilization

Options :

2105291693. 1

2105291694. 2

2105291695. 3

2105291696. 4

Question Number : 5 Question Id : 210529425 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. Incineration	I. Culture media
B. Sodium hypochlorite	II. Sterilization of inoculation needle
C. Moist heat sterilization	III. Surface sterilization of seeds
D. Filter sterilization	IV. Thermo labile liquids

Choose the correct answer from the options given below:

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

Options :

- 2105291697. 1
- 2105291698. 2
- 2105291699. 3
- 2105291700. 4

Question Number : 6 Question Id : 210529426 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

Options :

- 2105291701. 1
- 2105291702. 2

2105291703. 3

2105291704. 4

Question Number : 7 Question Id : 210529427 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

Options :

2105291705. 1

2105291706. 2

2105291707. 3

2105291708. 4

Question Number : 8 Question Id : 210529428 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

Options :

2105291709. 1

2105291710. 2

2105291711. 3

2105291712. 4

Question Number : 9 Question Id : 210529429 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

Irradiation by UV light causes:

1. Dimerization of purines
2. Dimerization of pyrimidines
3. Dimerization of both purines and pyrimidines
4. Dimerization of either purines or pyrimidines

Options :

2105291713. 1

2105291714. 2

2105291715. 3

2105291716. 4

Question Number : 10 Question Id : 210529430 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
(Organisms)	(Specific activity)
A. Mycorrhizae	I. Autotrophic nitrification
B. Symbiosome	II. Microaerophilic conditions
C. <i>Azospirillum</i>	III. Symbiotic nitrogen fixation
D. <i>Nitrosomonas</i>	IV. Phosphorous nutrition

Choose the correct answer from the options given below:

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

Options :

2105291717. 1
2105291718. 2
2105291719. 3
2105291720. 4

Question Number : 11 Question Id : 210529431 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

Maximum assimilation of nitrate takes place in which part of the plant?

1. Stem
2. Root
3. Leaves
4. Fruit

Options :

2105291721. 1

2105291722. 2

2105291723. 3

2105291724. 4

Question Number : 12 Question Id : 210529432 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



Options :

2105291725. 1

2105291726. 2

2105291727. 3

2105291728. 4

Question Number : 13 Question Id : 210529433 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

Options :

2105291729. 1

2105291730. 2

2105291731. 3

2105291732. 4

Question Number : 14 Question Id : 210529434 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 statements is NOT true for Koch's postulates?

- A. A specific organism can always be found in association with a given disease
- B. The organism can be isolated from a diseased animal and grown in pure culture in the laboratory
- C. The pure culture will produce the disease when inoculated into a resistant animal
- D. The pure culture will not produce the disease when inoculated into a susceptible animal
- E. It is possible to recover the organism in pure culture from the experimentally infected animal

Choose the correct answer from the options given below:

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

Options :

- 2105291733. 1
- 2105291734. 2
- 2105291735. 3
- 2105291736. 4



Question Number : 15 Question Id : 210529435 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

Starting from interior to exterior, arrange the following in correct order:

- A. Periplasmic space
- B. Nucleus
- C. Plasma membrane
- D. Cell wall
- E. Endoplasmic reticulum

Choose the correct answer from the options given below:

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

Options :

- 2105291737. 1
- 2105291738. 2
- 2105291739. 3
- 2105291740. 4

Question Number : 16 Question Id : 210529436 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

Options :

2105291741. 1

2105291742. 2

2105291743. 3

2105291744. 4

Question Number : 17 Question Id : 210529437 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

Options :

2105291745. 1

2105291746. 2

2105291747. 3

2105291748. 4

Question Number : 18 Question Id : 210529438 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

Options :

2105291749. 1

2105291750. 2

2105291751. 3

2105291752. 4

Question Number : 19 Question Id : 210529439 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: In bacterial transformation, a segment of naked DNA from the surroundings passes through the cell wall and plasma membrane of a recipient cell

Statement II: Only a few competent recipient bacterial cells can take up the DNA from the surroundings

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105291753. 1
- 2105291754. 2
- 2105291755. 3
- 2105291756. 4

Question Number : 20 Question Id : 210529440 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

Options :

- 2105291757. 1

2105291758. 2

2105291759. 3

2105291760. 4

Question Number : 21 Question Id : 210529441 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

Options :

2105291761. 1

2105291762. 2

2105291763. 3

2105291764. 4

Question Number : 22 Question Id : 210529442 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 crops are considered to have originated in South American Centre?

1. Potato, Tomato, Tobacco, Rice
2. Potato, Tomato, Tobacco, Maize
3. Potato, Tomato, Sugarcane, Wheat
4. Potato, Tomato, Soybean, Brinjal

Options :

2105291765. 1

2105291766. 2

2105291767. 3

2105291768. 4

Question Number : 23 Question Id : 210529443 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

Options :

- 2105291769. 1
- 2105291770. 2
- 2105291771. 3
- 2105291772. 4

Question Number : 24 Question Id : 210529444 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

Options :

- 2105291773. 1
- 2105291774. 2
- 2105291775. 3
- 2105291776. 4

Question Number : 25 Question Id : 210529445 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

With respect to chickpea, which of the following statement is INCORRECT?

1. Chickpea is a *rabi* crop
2. Heavy rains after sowing or at flowering and fruiting stage is useful
3. The crop cannot tolerate frost at any stage of growth
4. Chickpea is well adapted to arid and semi-arid regions and a cool and dry climate

Options :

- 2105291777. 1
- 2105291778. 2
- 2105291779. 3
- 2105291780. 4

Question Number : 26 Question Id : 210529446 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

Zein, a special kind of protein is obtained from:

1. Ramie (*Boehmeria nivea*)
2. Guar (*Cyamopsis tetragonoloba*)
3. Grass pea (*Lathyrus sativus*)
4. Maize (*Zea mays*)

Options :

- 2105291781. 1
- 2105291782. 2
- 2105291783. 3
- 2105291784. 4

Question Number : 27 Question Id : 210529447 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 an introduced variety of wheat crop?

1. Turkey
2. Marquis
3. Federation
4. Latisail

Options :

- 2105291785. 1
- 2105291786. 2
- 2105291787. 3
- 2105291788. 4

Question Number : 28 Question Id : 210529448 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



Options :

- 2105291789. 1
- 2105291790. 2

2105291791. 3

2105291792. 4

Question Number : 29 Question Id : 210529449 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

Options :

2105291793. 1

2105291794. 2

2105291795. 3

2105291796. 4



Question Number : 30 Question Id : 210529450 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 listed items do NOT come under the purview of the National Plant Protection Organization (NPPO) under the International Plant Protection Convention (IPPC)?

- A. Surveillance and inspection
- B. Controlling pests (example administering treatments, preventing spread, disinfection or disinfestation)
- C. Conduction of pest risk analysis
- D. Conservation and regeneration of plant genetic resources
- E. Multiplication of plant genetic resources

Choose the correct answer from the options given below:

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

Options :

- 2105291797. 1
- 2105291798. 2
- 2105291799. 3
- 2105291800. 4

Question Number : 31 Question Id : 210529451 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

Options :

- 2105291801. 1
- 2105291802. 2
- 2105291803. 3
- 2105291804. 4

Question Number : 32 Question Id : 210529452 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

With regard to the cultivation of groundnut, which of the following statements are correct?

- A. Groundnut is a warm-season crop requiring abundant sunshine
- B. Well-drained sandy loams are most favourable for growing groundnut
- C. Groundnut is propagated through whole pods, decorticated seeds or from seedlings
- D. Groundnut is widely grown in coastal and deltaic regions
- E. Groundnut takes six to nine months to mature

Choose the correct answer from the options given below:

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

Options :

- 2105291805. 1
- 2105291806. 2
- 2105291807. 3
- 2105291808. 4

Question Number : 33 Question Id : 210529453 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

Options :

2105291809. 1

2105291810. 2

2105291811. 3

2105291812. 4

Question Number : 34 Question Id : 210529454 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 these Conventions and Treaties in ascending order of year they entered into force

- A. World Trade Organization-Trade Related Aspect of Intellectual Property Rights (WTO-TRIPS)
- B. Convention on Biological Diversity (CBD)
- C. Nagoya Protocol on Access and Benefit Sharing (NP)
- D. Geographical Indication of Goods (Registration and Protection), GI Act
- E. International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

Choose the correct answer from the options given below:

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

Options :

- 2105291813. 1
- 2105291814. 2
- 2105291815. 3
- 2105291816. 4

Question Number : 35 Question Id : 210529455 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 (Common name)	List II (Botanical name)
A. Rosewood	I. <i>Shorea robusta</i>
B. Sal	II. <i>Diospyros ebenum</i>
C. Ebony	III. <i>Dalbergia latifolia</i>
D. Teak	IV. <i>Tectona grandis</i>

Choose the correct answer from the options given below:

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

Options :

2105291817. 1
2105291818. 2
2105291819. 3
2105291820. 4

Question Number : 36 Question Id : 210529456 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

Options :

- 2105291821. 1
- 2105291822. 2
- 2105291823. 3
- 2105291824. 4

Question Number : 37 Question Id : 210529457 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
(Plant)	(Product)
A. <i>Hevea brasiliensis</i>	I. Henna
B. <i>Achras zapota</i>	II. Tannin
C. <i>Lawsonia inermis</i>	III. Rubber
D. <i>Schinopsis lorentzii</i>	IV. Chewing gum

Choose the correct answer from the options given below:

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

Options :

2105291825. 1
2105291826. 2
2105291827. 3
2105291828. 4

Question Number : 38 Question Id : 210529458 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: *Mera Gaon Mera Gaurav* Scheme under extension education was launched by Prime Minister Sh. Narendra Modi with the theme 'Lab to Land' by asking scientists to adopt villages and remain in touch with them providing technical information to farmers and other aspects

Statement II: The scheme *Mera Gaon Mera Gaurav* functions with the help of Krishi Vigyan Kendra (KVKs) and Agriculture Technology Management Agencies (ATMA)

In the light of 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

Options :

- 2105291829. 1
- 2105291830. 2
- 2105291831. 3
- 2105291832. 4

Question Number : 39 Question Id : 210529459 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

Options :

- 2105291833. 1
- 2105291834. 2
- 2105291835. 3
- 2105291836. 4

Question Number : 40 Question Id : 210529460 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 process of CTC in tea stands for Crushing, Tearing and Curling

Statement II: The process of CTC in tea stands for Curling, Tearing and Crushing

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 true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is True

Options :

- 2105291837. 1
- 2105291838. 2
- 2105291839. 3
- 2105291840. 4

Question Number : 41 Question Id : 210529461 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: Potato is essentially a crop of cool moist regions and grows best in a climate where cool nights alternate with warm days during the period of tuber formation

Statement II: Irrigation or rainfall at or just before the initiation of tuber formation will result in decrease of the number of tuber sets

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 true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is True

Options :

2105291841. 1
2105291842. 2
2105291843. 3
2105291844. 4

Question Number : 42 Question Id : 210529462 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 disease greatly stimulated interest in the cause and control of plant disease?

1. Downy mildew of grapevine
2. Early blight of potato
3. Late blight of potato
4. Wheat rust disease

Options :

2105291845. 1
2105291846. 2

2105291847. 3

2105291848. 4

Question Number : 43 Question Id : 210529463 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

Options :

2105291849. 1

2105291850. 2

2105291851. 3

2105291852. 4

Question Number : 44 Question Id : 210529464 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

Options :

2105291853. 1

2105291854. 2

2105291855. 3

2105291856. 4

Question Number : 45 Question Id : 210529465 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

Options :

- 2105291857. 1
- 2105291858. 2
- 2105291859. 3
- 2105291860. 4

Question Number : 46 Question Id : 210529466 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 vascular wilt is transmitted by beetles?

- 1. Bacterial wilt of tomato
- 2. Fungal wilt of banana
- 3. Bacterial wilt of banana
- 4. Fungal wilt of date palm

Options :

- 2105291861. 1
- 2105291862. 2
- 2105291863. 3
- 2105291864. 4

Question Number : 47 Question Id : 210529467 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

Options :

- 2105291865. 1
- 2105291866. 2
- 2105291867. 3
- 2105291868. 4

Question Number : 48 Question Id : 210529468 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 bacterial pathogenic genus is classified under Gram-negative aerobic and microaerophilic rods?

- 1. *Acidovorax*
- 2. *Erwinia*
- 3. *Pantoea*
- 4. *Enterobacter*

Options :

- 2105291869. 1
- 2105291870. 2
- 2105291871. 3
- 2105291872. 4

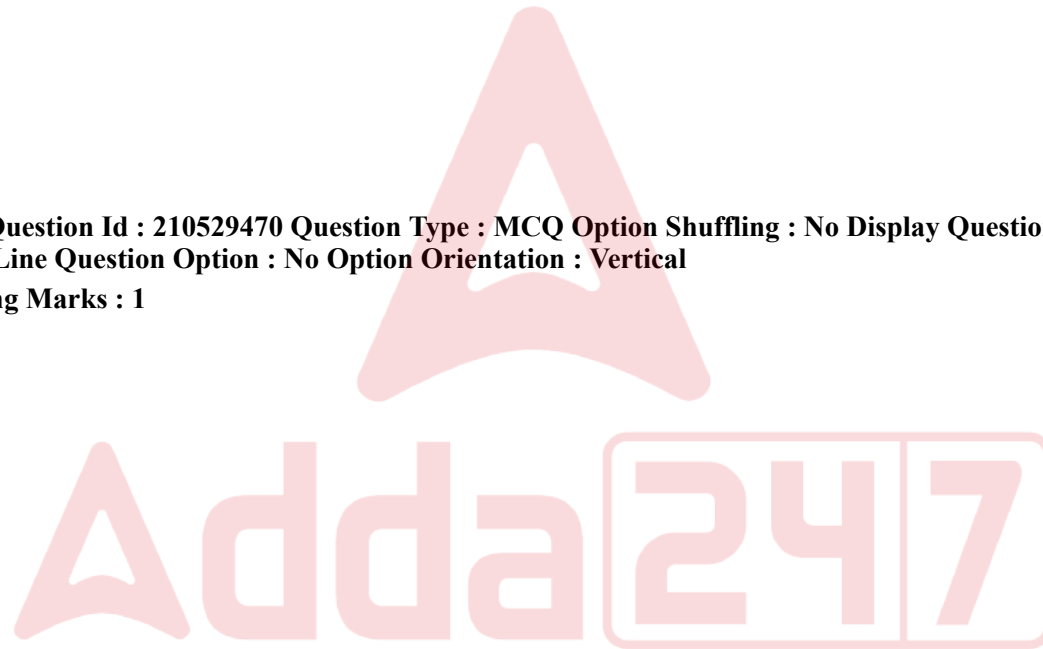
Question Number : 49 Question Id : 210529469 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Options :

- 2105291873. 1
- 2105291874. 2
- 2105291875. 3
- 2105291876. 4

Question Number : 50 Question Id : 210529470 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



Options :

- 2105291877. 1
- 2105291878. 2
- 2105291879. 3
- 2105291880. 4

Question Number : 51 Question Id : 210529471 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: Many viral diseases are transmitted by insect vectors

Statement II: Few insects transmit bacterial diseases

In the light of 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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105291881. 1
- 2105291882. 2
- 2105291883. 3
- 2105291884. 4

Question Number : 52 Question Id : 210529472 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

Options :

- 2105291885. 1
- 2105291886. 2
- 2105291887. 3
- 2105291888. 4

Question Number : 53 Question Id : 210529473 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: Witches broom symptoms are caused by phytoplasmas

Statement II: Nutrient deficiency also causes witches broom in crop plants

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105291889. 1
- 2105291890. 2
- 2105291891. 3
- 2105291892. 4

Question Number : 54 Question Id : 210529474 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: *Xanthomonas* causes disease on fibre plant parts

Statement II: *Xanthomonas* can cause vascular wilt in rice

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105291893. 1
- 2105291894. 2
- 2105291895. 3
- 2105291896. 4

Question Number : 55 Question Id : 210529475 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

Options :

- 2105291897. 1
- 2105291898. 2
- 2105291899. 3
- 2105291900. 4

Question Number : 56 Question Id : 210529476 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. Tumor	I. <i>Xanthomonas</i>
B. Wilt	II. <i>Pectobacterium</i>
C. Spot	III. <i>Pantoea</i>
D. Rot	IV. <i>Agrobacterium</i>

Chose the correct answer from the options given below:

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

Options :

2105291901. 1
2105291902. 2
2105291903. 3
2105291904. 4

Question Number : 57 Question Id : 210529477 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. White rust	I. <i>Puccinia striiformis</i>
B. Black rust	II. <i>Albugo candida</i>
C. Yellow rust	III. <i>Cepheleuros parasiticus</i>
D. Red Rust	IV. <i>Puccinia tritici</i>

Chose the correct answer from the options given below:

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

Options :

- 2105291905. 1
- 2105291906. 2
- 2105291907. 3
- 2105291908. 4

Question Number : 58 Question Id : 210529478 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

Naked asci can be observed in which ascomycete fungus?

1. Erysiphe
2. Claviceps
3. Taphrina
4. Uncinula

Options :

- 2105291909. 1
- 2105291910. 2
- 2105291911. 3

2105291912. 4

Question Number : 59 Question Id : 210529479 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. <i>Fusarium oxysporum</i>	I. Microsclerotia
B. <i>Macrophomina phaseolina</i>	II. Clamydospores
C. <i>Bipolaris sorokiniana</i>	III. Thick-walled conidia
D. <i>Ralstonia solanacearum</i>	IV. Naked cells

Chose the correct answer from the options given below:

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

Options :

2105291913. 1
 2105291914. 2
 2105291915. 3
 2105291916. 4



Question Number : 60 Question Id : 210529480 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. <i>Magnaporthe oryzae</i>	I. Stomata
B. <i>Puccinia tritici</i>	II. Hydathodes
C. <i>Xanthomonas axonopodis</i>	III. Wound
D. <i>Agrobacterium tumefaciens</i>	IV. Direct penetration

Chose the correct answer from the options given below:

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

Options :

2105291917. 1
2105291918. 2
2105291919. 3
2105291920. 4

Question Number : 61 Question Id : 210529481 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

Options :

- 2105291921. 1
- 2105291922. 2
- 2105291923. 3
- 2105291924. 4

Question Number : 62 Question Id : 210529482 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. Baiting	I. Nematodes
B. Ooze test	II. Bacteria
C. Elisa	III. Fungi
D. Baermann-funnel technique	IV. Virus

Chose the correct answer from the options given below:

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

Options :

2105291925. 1
2105291926. 2
2105291927. 3
2105291928. 4

Question Number : 63 Question Id : 210529483 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

Two genes are linked or not can be ascertained by:

1. F-test
2. t-test
3. Chi-square test
4. Z-test

Options :

2105291929. 1
2105291930. 2
2105291931. 3

2105291932. 4

Question Number : 64 Question Id : 210529484 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

Options :

- 2105291933. 1
- 2105291934. 2
- 2105291935. 3
- 2105291936. 4



Question Number : 65 Question Id : 210529485 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

Certain plant pathogens do not live at the site of the symptom or symptomate plant niche

- A. They only transfer virulent factors to host
- B. Plant attracts the virulence factors by its chemical signals
- C. This kind of pathogen survive in the rhizosphere of the infected plant
- D. Virulence factors can be cultured on media
- E. Infected plant can be recovered with time

Choose the correct answer from the options given below:

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

Options :

- 2105291937. 1
- 2105291938. 2
- 2105291939. 3
- 2105291940. 4

Question Number : 66 Question Id : 210529486 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

Rishitin is a phytoalexin produced by

- 1. Cotton
- 2. Potato
- 3. Pepper
- 4. Pea

Options :

- 2105291941. 1
- 2105291942. 2
- 2105291943. 3

2105291944. 4

Question Number : 67 Question Id : 210529487 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

Vertical resistance is useful in crop improvement programme for importing resistance

- A. Because of their monogenic nature
- B. Because of their polygenic nature
- C. The pathogen can break their resistance by evolving new race
- D. The pathogen cannot break this resistance
- E. Vertical resistance will work against biotrophic pathogens

Choose the correct answer from the options given below:

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

Options :

- 2105291945. 1
- 2105291946. 2
- 2105291947. 3
- 2105291948. 4



Question Number : 68 Question Id : 210529488 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

Water potential values of biological system are always

1. Positive
2. Negative
3. Both positive and negative
4. Neutral

Options :

2105291949. 1
2105291950. 2
2105291951. 3
2105291952. 4

Question Number : 69 Question Id : 210529489 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

Cell theory was put forward by

1. Singh & Nicolsan
2. Leeuwenhoek
3. Schleiden & Schwann
4. Calvin & Malvin

Options :

2105291953. 1
2105291954. 2
2105291955. 3
2105291956. 4

Question Number : 70 Question Id : 210529490 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

End product of Glycolysis is

1. Acetyl CoA
2. Pyruvic acid
3. Glucose-I-Phosphate
4. Fructose-I-Phosphate

Options :

2105291957. 1
2105291958. 2
2105291959. 3
2105291960. 4

Question Number : 71 Question Id : 210529491 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

Chief functions of leaves are

1. Gaseous exchange and photosynthesis
2. Respiration and photosynthesis
3. Respiration and Digestion
4. Respiration and gaseous exchange

Options :

2105291961. 1
2105291962. 2
2105291963. 3
2105291964. 4

Question Number : 72 Question Id : 210529492 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

Translocation of carbohydrates in plants usually occurs in the form of

1. Glucose
2. Maltose
3. Starch
4. Sucrose

Options :

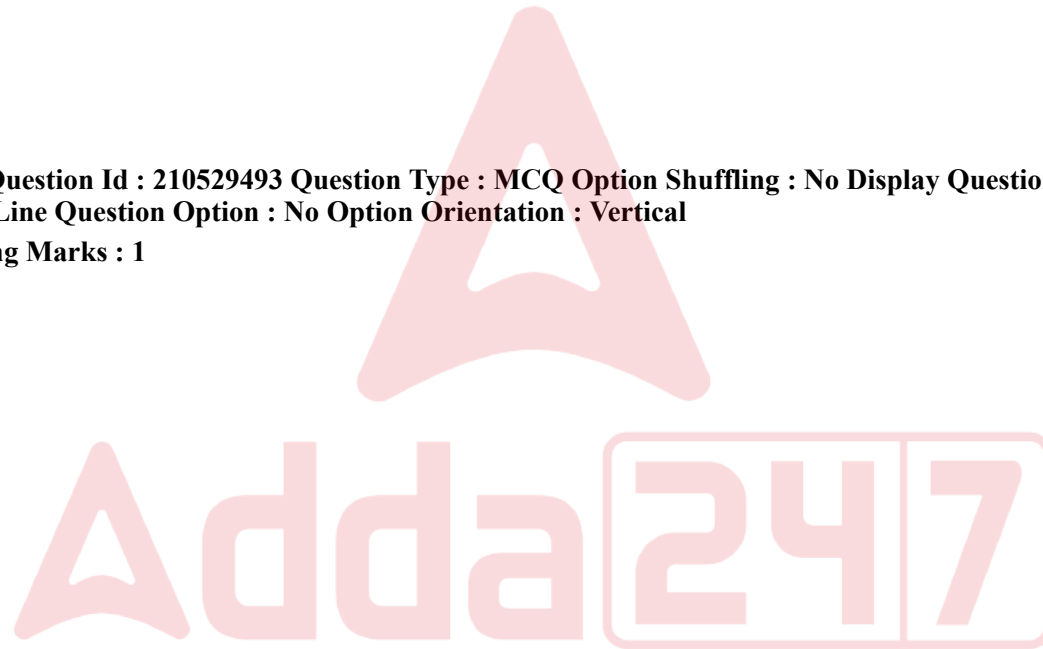
- 2105291965. 1
- 2105291966. 2
- 2105291967. 3
- 2105291968. 4

Question Number : 73 Question Id : 210529493 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

Options :

- 2105291969. 1
- 2105291970. 2
- 2105291971. 3
- 2105291972. 4

Question Number : 74 Question Id : 210529494 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



Options :

- 2105291973. 1
- 2105291974. 2
- 2105291975. 3
- 2105291976. 4

Question Number : 75 Question Id : 210529495 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 seed dormancy can be detected by

- 1. Vigor test
- 2. Germination test
- 3. Tetrazolium test
- 4. Purity test

Options :

- 2105291977. 1
- 2105291978. 2
- 2105291979. 3
- 2105291980. 4

Question Number : 76 Question Id : 210529496 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 crop variety enjoys legal protection in India, provided it is:

1. Developed by a breeder in a government organization
2. Registered with the PPV & FR Authority
3. Cultivated in a large area
4. Released by any Variety Release Committee

Options :

- 2105291981. 1
- 2105291982. 2
- 2105291983. 3
- 2105291984. 4

Question Number : 77 Question Id : 210529497 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 tag for Breeders Seed is issued by:

1. State Seed Certification Agency
2. Central Seed Certification Agency
3. Concerned Breeder of the variety
4. Independent organization operated under the state government

Options :

- 2105291985. 1
- 2105291986. 2
- 2105291987. 3
- 2105291988. 4

Question Number : 78 Question Id : 210529498 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

Options :

- 2105291989. 1
- 2105291990. 2
- 2105291991. 3
- 2105291992. 4

Question Number : 79 Question Id : 210529499 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 of the following seed storage conditions, the longevity of the seeds would be maximum?

- 1. Normal ambient storage
- 2. Moisture proof storage
- 3. Dehumidified with low temperature (5-8 °C) storage
- 4. Dehumidified storage only

Options :

- 2105291993. 1
- 2105291994. 2
- 2105291995. 3
- 2105291996. 4

Question Number : 80 Question Id : 210529500 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 stages of cell division is primarily arrested by treating with colchicine, used in polyploidization of plants?

1. Anaphase
2. Telophase
3. Interphase
4. Metaphase

Options :

2105291997. 1
2105291998. 2
2105291999. 3
2105292000. 4

Question Number : 81 Question Id : 210529501 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 genome of Triticale is designated as

1. AABB
2. AABBCC
3. AABBDD
4. AABRR

Options :

2105292001. 1
2105292002. 2
2105292003. 3
2105292004. 4

Question Number : 82 Question Id : 210529502 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

When two self-incompatible but cross-compatible parental lines are inter-planted, the seeds harvested from both the self-incompatible lines will be:

1. Composite seeds
2. Selfed seeds
3. Hybrid seeds
4. Inbred seeds

Options :

2105292005. 1
2105292006. 2
2105292007. 3
2105292008. 4

Question Number : 83 Question Id : 210529503 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 a cross (AaBbCCDdEE) x (AABbCcDdEe), what is the probability that any particular gamete from the female parent will be AbCdE?

1. 1/4
2. 1/6
3. 1/16
4. 1/8

Options :

2105292009. 1
2105292010. 2
2105292011. 3
2105292012. 4

Question Number : 84 Question Id : 210529504 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 allelic combination of the variety 1 is AAbbCCddEE and has the phenotype of 6 yield units. The allelic combination of variety 2 is aaBBccDDee and has 4 yield units. What would be the yield unit and heterosis (over the better parent) unit of the F_1 (if there is complete dominance)?

1. 6 and 4
2. 10 and 6
3. 10 and 4
4. 4 and 4

Options :

2105292013. 1
2105292014. 2
2105292015. 3
2105292016. 4

Question Number : 85 Question Id : 210529505 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 plant cell organelles is considered as semi-autonomous?

1. Endoplasmic reticulum
2. Mitochondria
3. Golgibody complex
4. Lysosomes

Options :

2105292017. 1
2105292018. 2
2105292019. 3
2105292020. 4

Question Number : 86 Question Id : 210529506 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 an INCORRECT statement about hybrids?

1. Can be produced only in cross-pollinated crop species
2. Exploits both GCA and SCA components
3. Are highly homogenous
4. Genetic constitution changes over generations

Options :

- 2105292021. 1
- 2105292022. 2
- 2105292023. 3
- 2105292024. 4

Question Number : 87 Question Id : 210529507 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



Options :

- 2105292025. 1
- 2105292026. 2
- 2105292027. 3
- 2105292028. 4

Question Number : 88 Question Id : 210529508 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 cultivar developed through population improvement approach can be maintained indefinitely with proper identity through:

1. Pure line selection
2. Random mating in isolation
3. Selfing in isolation
4. Top crossing

Options :

2105292029. 1
2105292030. 2
2105292031. 3
2105292032. 4

Question Number : 89 Question Id : 210529509 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 probability when both parents with blood type 'A' and normal vision (not colour-blind) produce their 1st son, who has blood type 'O' and is colour blind?

1. 1/2
2. 1/4
3. 1/8
4. 1/16

Options :

2105292033. 1
2105292034. 2
2105292035. 3
2105292036. 4

Question Number : 90 Question Id : 210529510 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 possible number of 'triplet' codons from 6 different types of nucleotides in the DNA molecule is:

1. $(6)^3$
2. $(3)^6$
3. $(6)^6$
4. $(3)^3$

Options :

2105292037. 1
2105292038. 2
2105292039. 3
2105292040. 4

Question Number : 91 Question Id : 210529511 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 a sexually reproducing organism, the chromosome number in the progeny does not double even after fertilization. The reason is that the male and female gametes contain:

1. Quarter set of somatic chromosomes
2. Half-set of the somatic chromosomes
3. Full set of the somatic chromosomes
4. Inhibitor that destroys the extra chromosomes

Options :

2105292041. 1
2105292042. 2
2105292043. 3
2105292044. 4

Question Number : 92 Question Id : 210529512 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

An organism has haploid chromosome number 7. The probability that a sperm produced by it will contain all the 7 chromosomes whose centromeres were derived from the maternal homologue is:

1. $(1/2)^1$
2. $(1/2)^3$
3. $(1/2)^5$
4. $(1/2)^7$

Options :

2105292045. 1
2105292046. 2
2105292047. 3
2105292048. 4

Question Number : 93 Question Id : 210529513 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

How many linkage groups are present in maize (*Zea mays* L.)?

1. 10
2. 20
3. 12
4. 13

Options :

2105292049. 1
2105292050. 2
2105292051. 3
2105292052. 4

Question Number : 94 Question Id : 210529514 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

Options :

- 2105292053. 1
- 2105292054. 2
- 2105292055. 3
- 2105292056. 4

Question Number : 95 Question Id : 210529515 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 yield of inbred A is 40 q/ha, inbred B is 20 q/ha, check hybrid yield is 45 q/ha and the yield of hybrid (A x B) is 50 q/ha. The standard heterosis (%) is:

- 1. 25%
- 2. 11.1%
- 3. 66.6%
- 4. 50%

Options :

- 2105292057. 1
- 2105292058. 2
- 2105292059. 3

2105292060. 4

Question Number : 96 Question Id : 210529516 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

'Stock 6' is a haploid inducer line of:

1. Wheat
2. Maize
3. Rice
4. Sorghum

Options :

2105292061. 1
2105292062. 2
2105292063. 3
2105292064. 4

Question Number : 97 Question Id : 210529517 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 are the genotypes that will be included in the trial for the estimation of heterobeltiosis?

1. F₁ hybrid developed and the parental lines
2. F₁ hybrid and commercially released hybrid (check)
3. F₁ hybrid developed only
4. Parental lines and commercially released hybrid (check)

Options :

2105292065. 1
2105292066. 2
2105292067. 3
2105292068. 4

Question Number : 98 Question Id : 210529518 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 hormone needed for cell division during germination of seed is:

1. Gibberelin
2. Abscisic acid
3. Cytokinin
4. Ethylin

Options :

2105292069. 1
2105292070. 2
2105292071. 3
2105292072. 4

Question Number : 99 Question Id : 210529519 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

To estimate the genetic diversity of germplasm collection, a technique involving multivariate analysis based on ordination giving graphical representation is:

1. D^2 analysis
2. Principal Component Analysis
3. Cluster analysis
4. Linkage analysis

Options :

2105292073. 1
2105292074. 2
2105292075. 3
2105292076. 4

Question Number : 100 Question Id : 210529520 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

Minimum standard of seed germination (%) for seed certification in maize is:

1. 80
2. 85
3. 90
4. 75

Options :

2105292077. 1
2105292078. 2
2105292079. 3
2105292080. 4

Question Number : 101 Question Id : 210529521 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 purity standard of certified seeds of carrot is:

1. 95%
2. 98%
3. 97%
4. 70%

Options :

2105292081. 1
2105292082. 2
2105292083. 3
2105292084. 4

Question Number : 102 Question Id : 210529522 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

Identify the correct statement(s) about 'speed breeding'

- A. It is targeted to reduce the breeding cycle of a crop
- B. It manipulates photoperiod and temperature to enhance crop maturity
- C. It is done in open field condition
- D. It was initially used to grow crops in the 'space station'
- E. It increases both vegetative and reproductive phases of the plants

Choose the correct answer from the options given below:

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

Options :

- 2105292085. 1
- 2105292086. 2
- 2105292087. 3
- 2105292088. 4

Question Number : 103 Question Id : 210529523 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

Identify the correct order of activities followed for testing and release of crop varieties:

- A. Multi-location testing
- B. Station trial
- C. Variety identification
- D. Release and notification
- E. Seed multiplication and distribution

Choose the correct answer from the options given below:

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

Options :

- 2105292089. 1
- 2105292090. 2
- 2105292091. 3
- 2105292092. 4

Question Number : 104 Question Id : 210529524 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

As per Seymour Benzer, a unit of mutation (muton) and unit of recombination (recon), respectively represent:

- A. Single gene and any pair of genes
- B. Single nucleotide and any adjacent pairs of nucleotide
- C. Single gene and any homologous pair of chromosomes
- D. Single nucleotide and any single gene
- E. Deletion mutants and any cross-over gene

Choose the correct answer from the options given below:

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

Options :

- 2105292093. 1
- 2105292094. 2
- 2105292095. 3
- 2105292096. 4

Question Number : 105 Question Id : 210529525 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 the Hershey and Chase experiment, ^{32}P and ^{35}S were used because:

- A. Both P and S are absent in RNA
- B. P and S both are present in DNA and protein
- C. P is present in DNA and S is present in protein only
- D. Selective labeling of DNA and protein can be done ^{32}P and ^{35}S
- E. Both are easily available in gaseous form

Choose the correct answer from the options given below:

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

Options :

- 2105292097. 1
- 2105292098. 2
- 2105292099. 3
- 2105292100. 4

Question Number : 106 Question Id : 210529526 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

Options :

- 2105292101. 1
- 2105292102. 2
- 2105292103. 3
- 2105292104. 4

Question Number : 107 Question Id : 210529527 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
(Genotype)	(Population)
A. Inbred lines	I. Homozygous and heterogenous
B. 3-way cross hybrid	II. Homozygous and homogeneous
C. Single cross hybrid	III. Heterozygous and heterogenous
D. Multiline	IV. Heterozygous and homogenous

Choose the correct answer from the options given below:

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

Options :

2105292105. 1
2105292106. 2
2105292107. 3
2105292108. 4

Question Number : 108 Question Id : 210529528 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
(Theory)	(Scientist who proposed)
A. Cell theory	I. Clarence P Oliver
B. Chromosomal theory of inheritance	II. Schleiden, Schwann, and Virchow
C. Divisibility of gene	III. Vernon Ingram
D. One gene-one polypeptide	IV. Walter Sutton and Theodor Boveri

Choose the correct answer from the options given below:

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

Options :

- 2105292109. 1
- 2105292110. 2
- 2105292111. 3
- 2105292112. 4

Question Number : 109 Question Id : 210529529 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 (Organelle)	List II (Function)
A. Mitochondria	I. Packaging protein, lipid, and phospholipid for transport to other cells
B. Endoplasmic reticulum	II. Oxidation of carbohydrate, lipid, and protein
C. Lysosomes	III. Digestion of intra-cellular substances and foreign material
D. Golgi complex	IV. Provide passage for mRNA from nucleus to cytoplasm

Choose the correct answer from the options given below:

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

Options :

2105292113. 1
2105292114. 2
2105292115. 3
2105292116. 4

Question Number : 110 Question Id : 210529530 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

Options :

- 2105292117. 1
- 2105292118. 2
- 2105292119. 3
- 2105292120. 4

**Question Number : 111 Question Id : 210529531 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**

Options :

2105292121. 1

2105292122. 2

2105292123. 3

2105292124. 4

**Question Number : 112 Question Id : 210529532 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 (Organization)	List II (Location)
A. International Water Management Institute	I. Lima, Peru
B. International Rice Research Institute	II. Ibadan, Nigeria
C. International Institute of Tropical Agriculture	III. Colombo, Sri Lanka
D. International Centre for Potato	IV. Los Banos, Philippines

Choose the correct answer from the options given below:

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

Options :

2105292125. 1
2105292126. 2
2105292127. 3
2105292128. 4

Question Number : 113 Question Id : 210529533 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: When one dominant allele of one gene and recessive allele of another gene are present on one chromosome and their opposite alleles are present on the homologous chromosome, the arrangement is called Cis-heterozygote

Statement II: When the dominant alleles of two genes are present on one chromosome and their corresponding recessive alleles are present on the homologous chromosome, the arrangement is called Cis-heterozygote

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 true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105292129. 1
- 2105292130. 2
- 2105292131. 3
- 2105292132. 4

Question Number : 114 Question Id : 210529534 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: Inbreeding depression is the loss of vigour and fertility due to homozygosity of deleterious recessive alleles

Statement II: Inbreeding depression is due to loss of vigour and fertility due to heterozygosity of recessive alleles

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105292133. 1
- 2105292134. 2
- 2105292135. 3
- 2105292136. 4

Question Number : 115 Question Id : 210529535 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

Options :

- 2105292137. 1
- 2105292138. 2
- 2105292139. 3
- 2105292140. 4

Question Number : 116 Question Id : 210529536 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: Cis-trans test can assign mutant alleles to the same or different genes but cannot estimate the map distance

Statement II: Recombination frequency can be used to estimate map distance between mutant loci

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105292141. 1
2105292142. 2
2105292143. 3
2105292144. 4

Question Number : 117 Question Id : 210529537 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: Hybrids are heterozygous and homogenous

Statement II: Pure lines are heterozygous and heterogenous

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105292145. 1
- 2105292146. 2
- 2105292147. 3
- 2105292148. 4

Question Number : 118 Question Id : 210529538 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: Kosambi's mapping function considers the absence of interference (I)

Statement II: Halden's mapping function considers the presence of interference (I)

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105292149. 1

2105292150. 2

2105292151. 3

2105292152. 4

Question Number : 119 Question Id : 210529539 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: Higher the degree of cross-pollination in crops, more will be the isolation distance requirement

Statement II: Self-pollinated crops need more isolation distance like cross-pollinated crops

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

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105292153. 1
- 2105292154. 2
- 2105292155. 3
- 2105292156. 4

Question Number : 120 Question Id : 210529540 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: Light reaction takes place in the stroma

Statement II: Dark reaction takes place in grana

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 correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105292157. 1
- 2105292158. 2
- 2105292159. 3
- 2105292160. 4

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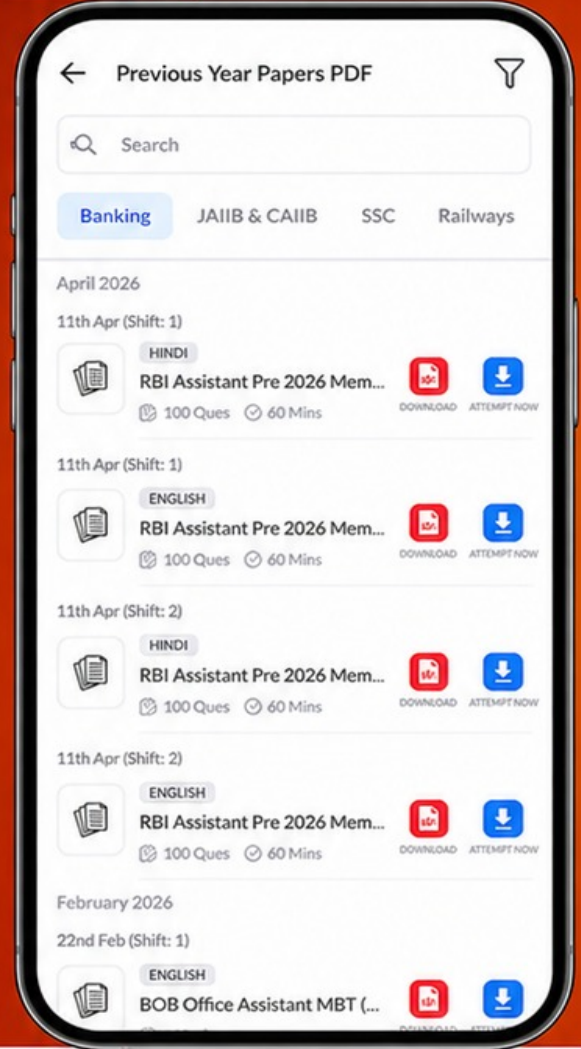
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Shift : First

Subject : PG - PLANT SCIENCES

Question ID	Correct Option ID	Question ID	Correct Option ID	Question ID	Correct Option ID
210529421	2105291684	210529475	2105291897	210529530	2105292119
210529422	2105291686,	210529476	2105291901	210529531	2105292122
	2105291687	210529477	2105291906	210529532	2105292127
210529423	2105291692	210529478	2105291911	210529533	2105292132
210529424	2105291694	210529479	2105291915	210529534	2105292135
210529425	2105291699	210529480	2105291917	210529535	2105292139
210529426	2105291703	210529481	2105291924	210529536	2105292141
210529427	2105291705	210529482	2105291926	210529537	2105292147
210529428	2105291710	210529483	2105291931	210529538	2105292150
210529429	2105291714	210529484	2105291936	210529539	2105292155
210529430	2105291718	210529485	2105291940	210529540	2105292158
210529431	2105291723	210529486	2105291942		
210529432	2105291725	210529487	Question Dropped		
210529433	2105291731	210529488	2105291950		
210529434	2105291733	210529489	2105291955		
210529435	2105291739	210529490	2105291958		
210529436	2105291744	210529491	2105291961		
210529437	2105291745	210529492	2105291968		
210529438	2105291752	210529493	2105291971		
210529439	2105291753	210529494	2105291973		
210529440	2105291758	210529495	2105291978		
210529441	2105291763	210529496	2105291982		
210529442	2105291766	210529497	2105291987		
210529443	2105291770	210529498	2105291990		
210529444	2105291775	210529499	2105291995		
210529445	2105291778	210529500	2105292000		
210529446	2105291784	210529501	2105292004		
210529447	2105291788	210529502	2105292007		
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210529452	2105291805	210529507	2105292025		
210529453	2105291810	210529508	2105292030		
210529454	2105291814	210529509	2105292035		
210529455	2105291820	210529510	2105292037		
210529456	2105291822	210529511	2105292042		
210529457	2105291825	210529512	2105292048		
210529458	2105291829	210529513	2105292049		
210529459	2105291833	210529514	2105292054		
210529460	2105291839	210529515	2105292058		
210529461	2105291843	210529516	2105292062		
210529462	2105291847	210529517	2105292065		
210529463	2105291852	210529518	2105292071		
210529464	2105291853	210529519	2105292074		
210529465	2105291857	210529520	2105292079		
210529466	2105291864	210529521	2105292081		
210529467	2105291868	210529522	2105292088		
210529468	2105291869	210529523	2105292090		
210529469	2105291875	210529524	2105292094		
210529470	2105291879	210529525	2105292098		
210529471	2105291881	210529526	2105292101		
210529472	2105291885	210529527	2105292108		
210529473	2105291889	210529528	2105292110		
210529474	2105291893	210529529	2105292114		