

# National Testing Agency

**Question Paper Name:** PLANT SCIENCES 1st July 2019 Shift2  
**Subject Name:** PLANT SCIENCES  
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**Display Marks:** Yes  
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**Actual Answer Key:** Yes

## PLANT SCIENCES

**Group Number :** 1  
**Group Id :** 55317218  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 150  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
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**Group Marks:** 640

## Part A : PLANT SCIENCES

**Section Id :** 55317226  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 160  
**Number of Questions to be attempted:** 160  
**Section Marks:** 640  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 55317248  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 5531722915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

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

In butterflies and moths, the sex determination system is

1. XX-XY, heterogametic male
2. XX-XO, heterogametic male
3. ZW-ZZ, heterogametic female
4. ZO-ZZ, heterogametic female



**Options :**

- 55317211601. 1
- 55317211602. 2
- 55317211603. 3
- 55317211604. 4

**Question Number : 2 Question Id : 5531722916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Pollination by bats is found in

- 1. Rafflesia
- 2. Colocasia
- 3. Anthocephalus
- 4. Ceratophyllum

**Options :**

- 55317211605. 1
- 55317211606. 2
- 55317211607. 3
- 55317211608. 4

**Question Number : 3 Question Id : 5531722917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Which of the following is a polysaccharide?

- 1. Sucrose
- 2. Maltose
- 3. Starch
- 4. Lactose

**Options :**

- 55317211609. 1
- 55317211610. 2
- 55317211611. 3
- 55317211612. 4

**Question Number : 4 Question Id : 5531722918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

The phenomenon of wobble hypothesis DOES NOT comply with which one of the following?

- 1. the multiple codes for a given amino acid
- 2. possible suppression of point mutations in the third base of the codons
- 3. more easily removed deacylated RNA during protein synthesis
- 4. fewer mRNA molecules than expected

**Options :**



- 55317211613. 1
- 55317211614. 2
- 55317211615. 3
- 55317211616. 4

Question Number : 5 Question Id : 5531722919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is an example of a bacteria which in an insecticidal?

1. *Bacillus polymyxa*
2. *Yersina pestis*
3. *Bacillus thuringiensis*
4. *Klebsiella oxytocha*

Options :

- 55317211617. 1
- 55317211618. 2
- 55317211619. 3
- 55317211620. 4

Question Number : 6 Question Id : 5531722920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is an example of hesperidium?

1. Apple
2. Orange
3. Pear
4. Pomegranate

Options :

- 55317211621. 1
- 55317211622. 2
- 55317211623. 3
- 55317211624. 4

Question Number : 7 Question Id : 5531722921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If a male sterile line is crossed with heterozygous male fertile plant and the progeny segregated as 1:1 male fertile and male sterile plants, respectively then the male sterility is termed as

1. cytoplasmic male sterility
2. genic male sterility
3. cytoplasmic genic male sterility
4. environment sensitive male sterility

Options :



- 55317211625. 1
- 55317211626. 2
- 55317211627. 3
- 55317211628. 4

**Question Number : 8 Question Id : 5531722922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

The tendency of genes to remain together in the same gamete during segregation and not show independent segregation is found in

1. QTLs
2. Epistatic genes
3. Linked genes
4. Multiple alleles

**Options :**

- 55317211629. 1
- 55317211630. 2
- 55317211631. 3
- 55317211632. 4

**Question Number : 9 Question Id : 5531722923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

A cell contains 40 chromatids at the beginning of meiosis. After the completion of meiosis, the cells would contain

1. 20 chromosomes
2. 10 chromosomes
3. 40 chromosomes
4. 80 chromosomes

**Options :**

- 55317211633. 1
- 55317211634. 2
- 55317211635. 3
- 55317211636. 4

**Question Number : 10 Question Id : 5531722924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

In a type of apomixis known as adventive embryony, the embryos develop directly from

1. zygote
2. synergids or antipodals in an embryo sac
3. nucleus and integuments
4. accessory embryo sacs in the ovule

**Options :**

- 55317211637. 1



55317211638. 2

55317211639. 3

55317211640. 4

**Question Number : 11 Question Id : 5531722925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Which plant is used for making cricket bat?

1. Morus
2. Salix
3. Adina
4. Juglans

**Options :**

55317211641. 1

55317211642. 2

55317211643. 3

55317211644. 4

**Question Number : 12 Question Id : 5531722926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

While explaining cell organelles, in ribosomes, the suffix 's' in ribosome unit indicates

1. Sedimentation area
2. Sedimentation coefficient
3. Surface area
4. Structural protein

**Options :**

55317211645. 1

55317211646. 2

55317211647. 3

55317211648. 4

**Question Number : 13 Question Id : 5531722927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The cell organelles that act as factories which translate the genetic information from nucleus into usable protein molecules is

1. mRNA
2. endoplasmic reticulum
3. ribosomes
4. vesicles

**Options :**

55317211649. 1



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55317211650. 2

55317211651. 3

55317211652. 4

**Question Number : 14 Question Id : 5531722928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The apomixis that occurs commonly in *Citrus* species is

1. Gametophytic apomixis
2. Sprophytic apomixis
3. Diplospony
4. Apogamy

**Options :**

55317211653. 1

55317211654. 2

55317211655. 3

55317211656. 4

**Question Number : 15 Question Id : 5531722929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The multiple replicates of same chromosome holding together  
in a parallel fashion is called

1. Endomitosis
2. Polyteny
3. Balbiani
4. Puffing

**Options :**

55317211657. 1

55317211658. 2

55317211659. 3

55317211660. 4

**Question Number : 16 Question Id : 5531722930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Heterobeltiosis is the superiority of  $F_1$  over

1. mean parent
2. popular check
3. better parents
4. commercial hybrids

**Options :**

55317211661. 1

55317211662. 2

55317211663. 3

55317211664. 4



Question Number : 17 Question Id : 5531722931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The temperature, pressure and time combination usually employed in autoclaving is

1. 125 °C, 15 lbs, 10–15 min
2. 128 °C, 20 lbs, 10–15 min
3. 125 °C, 20 lbs, 15–20 min
4. 121 °C, 15 lbs, 15–20 min

Options :

55317211665. 1

55317211666. 2

55317211667. 3

55317211668. 4

Question Number : 18 Question Id : 5531722932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Assuming Hardy-Weinberg equilibrium, if the frequency of the two alleles at the gene being studied are 0.6 and 0.4, the genotypic frequency of heterozygotes will be

1. 0.80
2. 0.48
3. 0.64
4. 0.16

Options :

55317211669. 1

55317211670. 2

55317211671. 3

55317211672. 4

Question Number : 19 Question Id : 5531722933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The classical work of Beadle and Tatum on *Neurospora crassa* has proved that

1. Replication of DNA is semiconservative
2. Viruses have genetic material
3. One gene is responsible for synthesis of one enzyme
4. Plant cells contain prokaryotic genome

Options :

55317211673. 1

55317211674. 2

55317211675. 3

55317211676. 4



Question Number : 20 Question Id : 5531722934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which direction, do the 5'–3' phosphodiester bonds run, in Watson and Crick DNA model?

1. Parallel
2. Antiparallel
3. Forward
4. Alternate

Options :

55317211677. 1

55317211678. 2

55317211679. 3

55317211680. 4

Question Number : 21 Question Id : 5531722935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

During the process of lint development in cotton, how many days after fertilization does the lint gain maturity?

1. 45 - 50 days
2. 70 - 75 days
3. 100 -105 days
4. 75 - 80 days

Options :

55317211681. 1

55317211682. 2

55317211683. 3

55317211684. 4

Question Number : 22 Question Id : 5531722936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The unit of radiation dose is called Gray (Gy) and 1 Gray equals

1. One Jule/gram of the irradiated object
2. One Jule/kg of the irradiated object
3. 100 J/kg of the irradiated object
4. 1000 J/kg of the irradiated object

Options :

55317211685. 1

55317211686. 2

55317211687. 3

55317211688. 4





Question Number : 23 Question Id : 5531722937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The hybrid progeny between a single cross and an inbred line is referred to as :

1. Three way cross hybrid
2. Double top cross hybrid
3. Double cross hybrid
4. Two way cross hybrid

Options :

- 55317211689. 1
- 55317211690. 2
- 55317211691. 3
- 55317211692. 4

Question Number : 24 Question Id : 5531722938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The process of breeding food crops that are rich in bioavailable micronutrients is referred to as :

1. Molecular breeding
2. Speed breeding
3. Quality breeding
4. Biofortification

Options :

- 55317211693. 1
- 55317211694. 2
- 55317211695. 3
- 55317211696. 4

Question Number : 25 Question Id : 5531722939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A set of germplasm accession derived from base collection to represent the genetic diversity in the whole collection is

1. Active collection
2. Reference set
3. Working collection
4. Core collection

Options :

- 55317211697. 1
- 55317211698. 2
- 55317211699. 3
- 55317211700. 4



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Question Number : 26 Question Id : 5531722940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The recent molecular technology which is used to determine the exact order of the bases in a genome is

1. RNAi technology
2. PCR technique
3. DNA sequencing technique
4. DNA walking

Options :

55317211701. 1

55317211702. 2

55317211703. 3

55317211704. 4

Question Number : 27 Question Id : 5531722941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In recombinant DNA technology, which enzyme is used to join fragments that have been cut by restriction enzymes?

1. *Eco* R I
2. DNA polymerase
3. DNA methylase
4. DNA ligase

Options :

55317211705. 1

55317211706. 2

55317211707. 3

55317211708. 4

Question Number : 28 Question Id : 5531722942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Monocot seed sowing epigeal germination is found in

1. rice
2. wheat
3. onion
4. maize

Options :

55317211709. 1

55317211710. 2

55317211711. 3

55317211712. 4

Question Number : 29 Question Id : 5531722943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which bacteria converts nitrite into nitrate form?

1. *Nitrosomonas*
2. *Nitrosococcus*
3. *Nitrobacter*
4. *Rhizobium*

Options :

55317211713. 1  
55317211714. 2  
55317211715. 3  
55317211716. 4

Question Number : 30 Question Id : 5531722944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following represents genome and chromosome number of the oilseed *Brassica napus* sub. sp. *Napus*?

1. AACCC, 38
2. BBCC, 34
3. CC, 18
4. AA, 20

Options :

55317211717. 1  
55317211718. 2  
55317211719. 3  
55317211720. 4

Question Number : 31 Question Id : 5531722945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Entry of the pollen tube through micropyle is known as

1. Mesogamy
2. Microgamy
3. Porogamy
4. Chalazogamy

Options :

55317211721. 1  
55317211722. 2  
55317211723. 3  
55317211724. 4

Question Number : 32 Question Id : 5531722946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



If the sequence of bases in a section of DNA is TAGGCTAA, what are the corresponding sequenced bases in mRNA?

1. ATCCGATT
2. TAGGCTAA
3. AUCCGAUU
4. AATCGGAT

Options :

55317211725. 1  
55317211726. 2  
55317211727. 3  
55317211728. 4

Question Number : 33 Question Id : 5531722947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Heterostyly is observed in

1. Linseed
2. Orchids
3. Maize
4. Pearl millet

Options :

55317211729. 1  
55317211730. 2  
55317211731. 3  
55317211732. 4

Question Number : 34 Question Id : 5531722948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Castor oil falls under which of the following category of fixed oils?

1. Drying oil
2. Semidrying oil
3. Non-drying oil
4. Fats

Options :

55317211733. 1  
55317211734. 2  
55317211735. 3  
55317211736. 4

Question Number : 35 Question Id : 5531722949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



In a crop plant, if the percentage of cross pollination exceeds 5 per cent and may reach up to 30 per cent, then the pollination behavior of such crop species is referred as

1. cross pollinated
2. self-pollinated
3. often cross pollinated
4. open pollinated

**Options :**

- 55317211737. 1
- 55317211738. 2
- 55317211739. 3
- 55317211740. 4

**Question Number : 36 Question Id : 5531722950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

While analyzing the structural variation in DNA, the 'B' form of DNA consists of how many base pairs per helical turn?

1. 11
2. 10.5
3. 12
4. 8.5

**Options :**

- 55317211741. 1
- 55317211742. 2
- 55317211743. 3
- 55317211744. 4

**Question Number : 37 Question Id : 5531722951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

The technology that prevents farmers from harvesting a crop by saving seed from the current year's crop to plant the next season's crop is termed as

1. Apomixis technology
2. Synthetic technology
3. Transgenic technology
4. Terminator technology

**Options :**

- 55317211745. 1
- 55317211746. 2
- 55317211747. 3
- 55317211748. 4





Question Number : 38 Question Id : 5531722952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The genetic gain under selection is more rapid if

1. the character is polygenic
2. there is non-additive gene
3. the alleles are rare
4. the heritability is 100 per cent

Options :

55317211749. 1

55317211750. 2

55317211751. 3

55317211752. 4

Question Number : 39 Question Id : 5531722953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

According to the dominance hypothesis of heterosis, which one of the following is a false statement?

1. Open pollinated populations are highly heterozygous.
2. In breeding, depression is due to the harmful effects of dominant alleles.
3. Heterosis is due to the masking of harmful effects of recessive alleles by their dominant alleles.
4. Each locus of dominant alleles has a favourable effect.

Options :

55317211753. 1

55317211754. 2

55317211755. 3

55317211756. 4

Question Number : 40 Question Id : 5531722954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The tetrazolium chloride tests activity of

1. peroxidase
2. superoxide dismutase
3. oxidase
4. dehydrogenase

Options :

55317211757. 1

55317211758. 2

55317211759. 3

55317211760. 4



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Question Number : 41 Question Id : 5531722955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Inner integument of the seed is called

1. Testa
2. Micropyle
3. Tegmen
4. Epithelium

Options :

- 55317211761. 1
- 55317211762. 2
- 55317211763. 3
- 55317211764. 4

Question Number : 42 Question Id : 5531722956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The organic compound glucosinolates are present in members of  
the family

1. Caryophyllaceae
2. Chenopodiaceae
3. Euphorbiaceae
4. Brassicaceae

Options :

- 55317211765. 1
- 55317211766. 2
- 55317211767. 3
- 55317211768. 4

Question Number : 43 Question Id : 5531722957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In a self-pollinated crop variety, if a mechanical mixture was  
caused during threshing, then which breeding method  
would you adopt to purify the variety?

1. Recurrent selection
2. Bulk selection
3. Mass selection
4. Pure line selection

Options :

- 55317211769. 1
- 55317211770. 2
- 55317211771. 3
- 55317211772. 4

Question Number : 44 Question Id : 5531722958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is ssDNA plant virus?

1. Cauliflower mosaic virus
2. Banana bunchy top virus
3. Bacilliform DNA virus
4. Rice dwarf virus

Options :

55317211773. 1  
55317211774. 2  
55317211775. 3  
55317211776. 4

Question Number : 45 Question Id : 5531722959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The three-nucleotide combination, adenine-uracil-guanine codes for

1. Methionine
2. Leucine
3. Alanine
4. Guanine

Options :

55317211777. 1  
55317211778. 2  
55317211779. 3  
55317211780. 4

Question Number : 46 Question Id : 5531722960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The type of germination in which seeds germinate by keeping cotyledons below the soil surface due to rapid elongation of epicotyle, is referred to as

1. Epigeal
2. Hypogeal
3. Hypo-epigeal
4. Epi-hypogeal

Options :

55317211781. 1  
55317211782. 2  
55317211783. 3  
55317211784. 4

Question Number : 47 Question Id : 5531722961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which bacterium is associated with preparation of Sauerkraut?

1. *Lactobacillus plantarum*
2. *Clostridium butyricum*
3. *Bacillus subtilis*
4. *Bacillus megaterium*

Options :

- 55317211785. 1
- 55317211786. 2
- 55317211787. 3
- 55317211788. 4

Question Number : 48 Question Id : 5531722962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The isolation distance to be maintained for retaining the genetic purity of parental lines of maize hybrids while producing foundation seed is

1. 400 meters
2. 1000 meters
3. 100 meters
4. 200 meters

Options :

- 55317211789. 1
- 55317211790. 2
- 55317211791. 3
- 55317211792. 4

Question Number : 49 Question Id : 5531722963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the seeds of most flowering plants, a triploid albuminous tissue is found which is botanically described as

1. Seed coat
2. Cotyledon
3. Endosperm
4. Embryo

Options :

- 55317211793. 1
- 55317211794. 2
- 55317211795. 3
- 55317211796. 4

Question Number : 50 Question Id : 5531722964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Phenomenon of transduction in bacteria was discovered by

1. Griffith
2. Tatum
3. Lederberg
4. Zinder & Lederberg

Options :

- 55317211797. 1
- 55317211798. 2
- 55317211799. 3
- 55317211800. 4

Question Number : 51 Question Id : 5531722965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Etiology is the study of

1. cause of disease
2. symptoms of disease
3. predisposing factors for disease
4. management of disease

Options :

- 55317211801. 1
- 55317211802. 2
- 55317211803. 3
- 55317211804. 4

Question Number : 52 Question Id : 5531722966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is present in a prokaryotic cell?

1. Nucleoid
2. Nuclear membrane
3. Mitochondria
4. 80 S ribosomes

Options :

- 55317211805. 1
- 55317211806. 2
- 55317211807. 3
- 55317211808. 4

Question Number : 53 Question Id : 5531722967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





Cephaleuros species cause

1. White rust
2. Yellow rust
3. Black rust
4. Red rust

Options :

55317211809. 1  
55317211810. 2  
55317211811. 3  
55317211812. 4

Question Number : 54 Question Id : 5531722968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cell wall of a bacteria is made up of

1. cellulose
2. chitin
3. peptidoglycan
4. dextran

Options :

55317211813. 1  
55317211814. 2  
55317211815. 3  
55317211816. 4

Question Number : 55 Question Id : 5531722969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT a gram +ve bacterial plant  
pathogenic genus?

1. *Rathayibacter*
2. *Streptomyces*
3. *Xanthomonas*
4. *Clavibacter*

Options :

55317211817. 1  
55317211818. 2  
55317211819. 3  
55317211820. 4

Question Number : 56 Question Id : 5531722970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Presence of flagella all around the cell of bacteria is referred to as

1. Peritrichous
2. Monotrichous
3. Lophotrichous
4. A trichous

Options :

- 55317211821. 1
- 55317211822. 2
- 55317211823. 3
- 55317211824. 4

Question Number : 57 Question Id : 5531722971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When a disease becomes prevalent throughout the country, continent or the world in a severe form, it is referred to as

1. Epidemic
2. Sporadic
3. Endemic
4. Pandemic

Options :

- 55317211825. 1
- 55317211826. 2
- 55317211827. 3
- 55317211828. 4

Question Number : 58 Question Id : 5531722972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

ICAR- National Bureau of Agriculturally Important Micro-organisms is located at

1. Ludhiana
2. Shimla
3. Mau
4. Bangalore

Options :

- 55317211829. 1
- 55317211830. 2
- 55317211831. 3
- 55317211832. 4

Question Number : 59 Question Id : 5531722973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is a soft fibre?

1. Jute
2. Cotton
3. Sisal
4. Manilla hemp

Options :

55317211833. 1  
55317211834. 2  
55317211835. 3  
55317211836. 4

Question Number : 60 Question Id : 5531722974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is a pleomorphic fungus?

1. *Sclerospora*
2. *Erysiphe*
3. *Ustilago*
4. *Puccinia*

Options :

55317211837. 1  
55317211838. 2  
55317211839. 3  
55317211840. 4

Question Number : 61 Question Id : 5531722975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The fungi in which parasitic habit is weakly developed is called

1. Perthotrophs
2. Facultative parasites
3. Necrotrophs
4. Facultative saprophytes

Options :

55317211841. 1  
55317211842. 2  
55317211843. 3  
55317211844. 4

Question Number : 62 Question Id : 5531722976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Identify the Fungi which grow on dung.

1. *Corticulous*
2. *Epixylic*
3. *Coprothillaus*
4. *Xylophilous*

Options :

55317211845. 1  
55317211846. 2  
55317211847. 3  
55317211848. 4

Question Number : 63 Question Id : 5531722977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sphacelia phase is the characteristic of

1. *Penicillium*
2. *Aspergillus*
3. *Claviceps*
4. *Curvularia*

Options :

55317211849. 1  
55317211850. 2  
55317211851. 3  
55317211852. 4

Question Number : 64 Question Id : 5531722978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following belongs to the imperfect fungi?

1. *Puccinina*
2. *Phytophthora*
3. *Ustilago*
4. *Rhizoctonia*

Options :

55317211853. 1  
55317211854. 2  
55317211855. 3  
55317211856. 4

Question Number : 65 Question Id : 5531722979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



In India, domestic quarantine is in force for which of the following banana diseases?

1. Moko disease
2. Panama wilt
3. Bunchy top
4. Sigatoka

Options :

- 55317211857. 1
- 55317211858. 2
- 55317211859. 3
- 55317211860. 4

Question Number : 66 Question Id : 5531722980 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is asexual spores in fungi?

1. Ascospore
2. Basidiospore
3. Oospore
4. Chlamydospore

Options :

- 55317211861. 1
- 55317211862. 2
- 55317211863. 3
- 55317211864. 4

Question Number : 67 Question Id : 5531722981 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

*Sclerotinia sclerotiorum* produces ascocarp named

1. Apothecium
2. Pseudothecium
3. Cleistothecium
4. Perithecium

Options :

- 55317211865. 1
- 55317211866. 2
- 55317211867. 3
- 55317211868. 4

Question Number : 68 Question Id : 5531722982 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





The concentration of copper sulphate in 2 : 2 : 200 Bordeaux mixture is

1. 1.0%
2. 1.2%
3. 0.8%
4. 1.4%

Options :

55317211869. 1  
55317211870. 2  
55317211871. 3  
55317211872. 4

Question Number : 69 Question Id : 5531722983 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following checks the untimely sprouting of potato tubers?

1. Abscisic acid
2. Ethylene
3. Gibberellin
4. Maleic hydrazide

Options :

55317211873. 1  
55317211874. 2  
55317211875. 3  
55317211876. 4

Question Number : 70 Question Id : 5531722984 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Histone proteins found in the nucleus are rich in

1. Lysine and arginine
2. Lysine and threonine
3. Arginine and threonine
4. Methionine and threonine

Options :

55317211877. 1  
55317211878. 2  
55317211879. 3  
55317211880. 4

Question Number : 71 Question Id : 5531722985 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following plant diseases are caused by Deuteromycetes?

1. Powdery mildews
2. Ergots
3. Downy mildews
4. Wilts

Options :

- 55317211881. 1
- 55317211882. 2
- 55317211883. 3
- 55317211884. 4

Question Number : 72 Question Id : 5531722986 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Centre of origin of pigeon pea is

1. the Mediterranean centre
2. the Chinese centre
3. the South American centre
4. Peninsular India

Options :

- 55317211885. 1
- 55317211886. 2
- 55317211887. 3
- 55317211888. 4

Question Number : 73 Question Id : 5531722987 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Minimum population size required for recombination of all  $F_1$  gametes at random is

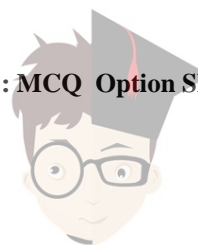
1.  $2^n$
2.  $3^n$
3.  $4^n$
4.  $n^2$

Options :

- 55317211889. 1
- 55317211890. 2
- 55317211891. 3
- 55317211892. 4

Question Number : 74 Question Id : 5531722988 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Pore-size of filter used for laminar flow air chamber is

1. 0.30  $\mu\text{m}$
2. 1.25  $\mu\text{m}$
3. 1.75  $\mu\text{m}$
4. 2.00  $\mu\text{m}$

Options :

- 55317211893. 1
- 55317211894. 2
- 55317211895. 3
- 55317211896. 4

Question Number : 75 Question Id : 5531722989 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Multi Parent Advanced Generation Intercross Population (MAGIC) generally requires how many members in crossing?

1. 100 parents
2. 8 parents
3. 2 parents
4. All members of minicore

Options :

- 55317211897. 1
- 55317211898. 2
- 55317211899. 3
- 55317211900. 4

Question Number : 76 Question Id : 5531722990 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

III-stage of *Purccinia graminis tritici* produces

1. Teleutospores
2. Uredospores
3. Aeciospores
4. Pycniospores

Options :

- 55317211901. 1
- 55317211902. 2
- 55317211903. 3
- 55317211904. 4

Question Number : 77 Question Id : 5531722991 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following bacterium is used as a biocontrol agent for the control of *Meloidogyne* species?

1. *Agrobacterium*
2. *Rhizobium*
3. *Pasteuria*
4. *Erwinia*

Options :

55317211905. 1  
55317211906. 2  
55317211907. 3  
55317211908. 4

Question Number : 78 Question Id : 5531722992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Grey mould of chick-pea is caused by

1. *Sclerotium rolfsii*
2. *Ascochyta rabiei*
3. *Botrytis cinerea*
4. *Sclerotinia sclerotiorum*

Options :

55317211909. 1  
55317211910. 2  
55317211911. 3  
55317211912. 4

Question Number : 79 Question Id : 5531722993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In term of ploidy, trisomy is a form of

1. hypoploidy
2. hyperploidy
3. polyploidy
4. diploidy

Options :

55317211913. 1  
55317211914. 2  
55317211915. 3  
55317211916. 4

Question Number : 80 Question Id : 5531722994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is a simple interest disease?

1. Powdery mildew of mango
2. Downy mildew of grapes
3. Rust of pea
4. Loose smut of wheat

Options :

- 55317211917. 1
- 55317211918. 2
- 55317211919. 3
- 55317211920. 4

Question Number : 81 Question Id : 5531722995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Vertical resistance is also known as

1. Partial resistance
2. Field resistance
3. Dilatory resistance
4. Major gene resistance

Options :

- 55317211921. 1
- 55317211922. 2
- 55317211923. 3
- 55317211924. 4

Question Number : 82 Question Id : 5531722996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Seven characters of Mendel's experiment were located on how many chromosomes?

1. 7
2. 4
3. 5
4. 6

Options :

- 55317211925. 1
- 55317211926. 2
- 55317211927. 3
- 55317211928. 4

Question Number : 83 Question Id : 5531722997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





The uredia are arranged in rows on leaves in

1. black rust of wheat
2. brown rust of wheat
3. yellow rust of wheat
4. rust of pea

Options :

- 55317211929. 1
- 55317211930. 2
- 55317211931. 3
- 55317211932. 4

Question Number : 84 Question Id : 5531722998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Nonsense codon opal is

1. UGA
2. UAG
3. UAA
4. AUU

Options :

- 55317211933. 1
- 55317211934. 2
- 55317211935. 3
- 55317211936. 4

Question Number : 85 Question Id : 5531722999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The appendages on cleistothecium are coiled in the genus

1. *Erysiphe*
2. *Phyllactinia*
3. *Microsphaera*
4. *Uncinula*

Options :

- 55317211937. 1
- 55317211938. 2
- 55317211939. 3
- 55317211940. 4

Question Number : 86 Question Id : 5531723000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



In which kingdom is Oomycota included?

1. Fungi
2. Chromista
3. Protozoa
4. Protista

Options :

- 55317211941. 1
- 55317211942. 2
- 55317211943. 3
- 55317211944. 4

Question Number : 87 Question Id : 5531723001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which variety of pigeon pea was used for whole genome sequencing?

1. Pusa 992
2. BSMR 736
3. TJT 501
4. Asha

Options :

- 55317211945. 1
- 55317211946. 2
- 55317211947. 3
- 55317211948. 4

Question Number : 88 Question Id : 5531723002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Biological nitrogen fixation is the conversion of

1.  $N_2$  to  $NH_3$
2.  $N_2$  to Urea
3.  $N_2$  to N
4.  $N_2$  to  $NO_3^-$

Options :

- 55317211949. 1
- 55317211950. 2
- 55317211951. 3
- 55317211952. 4

Question Number : 89 Question Id : 5531723003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is NOT free living N<sub>2</sub> fixers?

1. *Clostridium*
2. *Rhizobium*
3. *Rhodospirillum*
4. *Azotobacter*

Options :

55317211953. 1  
55317211954. 2  
55317211955. 3  
55317211956. 4

Question Number : 90 Question Id : 5531723004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The conversion of fixed forms of nitrogen to molecular nitrogen  
is called

1. Ammonification
2. Nitrogen fixation
3. Denitrification
4. Nitrification

Options :

55317211957. 1  
55317211958. 2  
55317211959. 3  
55317211960. 4

Question Number : 91 Question Id : 5531723005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pink boll worm is a serious pest of

1. Gram
2. Cotton
3. Mustard
4. Ladysfinger

Options :

55317211961. 1  
55317211962. 2  
55317211963. 3  
55317211964. 4

Question Number : 92 Question Id : 5531723006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Use of light traps for the management of pest is an example of

1. Chemical control
2. Mechanical control
3. Cultural control
4. Biological control

Options :

- 55317211965. 1
- 55317211966. 2
- 55317211967. 3
- 55317211968. 4

Question Number : 93 Question Id : 5531723007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a polyphagous pest?

1. Termite
2. Mango hopper
3. Mango nut weevil
4. Rice stem borer

Options :

- 55317211969. 1
- 55317211970. 2
- 55317211971. 3
- 55317211972. 4

Question Number : 94 Question Id : 5531723008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which is the single most important factor affecting drift?

1. Spray volume
2. Spray drop size
3. Kind of sprayer
4. Kind of solvent

Options :

- 55317211973. 1
- 55317211974. 2
- 55317211975. 3
- 55317211976. 4

Question Number : 95 Question Id : 5531723009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is a systemic fungicide?

1. Zineb
2. Mancozeb
3. Thiram
4. Carbendazim

Options :

55317211977. 1  
55317211978. 2  
55317211979. 3  
55317211980. 4

Question Number : 96 Question Id : 5531723010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the mRNA (AUG CUA GCU AAA UAA) is translated into protein, how many amino acids would it contain?

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

Options :

55317211981. 1  
55317211982. 2  
55317211983. 3  
55317211984. 4

Question Number : 97 Question Id : 5531723011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The viable gametes produced by a translocation heterozygote is in

1. Adjacent I
2. Alternate
3. Adjacent II
4. Adjacent I & II

Options :

55317211985. 1  
55317211986. 2  
55317211987. 3  
55317211988. 4

Question Number : 98 Question Id : 5531723012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





The epidermal hair on the stem are referred to as

1. epiblema
2. trichomes
3. periderm
4. endarch

Options :

55317211989. 1  
55317211990. 2  
55317211991. 3  
55317211992. 4

Question Number : 99 Question Id : 5531723013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Anthropochory is

1. wind dispersal of pathogens
2. human dispersal of pathogens
3. water dispersal of pathogens
4. insect dispersal of pathogens

Options :

55317211993. 1  
55317211994. 2  
55317211995. 3  
55317211996. 4

Question Number : 100 Question Id : 5531723014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Actinomycetes have characters of both

1. bacteria and algae
2. fungi and algae
3. fungi and viruses
4. bacteria and fungi

Options :

55317211997. 1  
55317211998. 2  
55317211999. 3  
55317212000. 4

Question Number : 101 Question Id : 5531723015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



How many types of gametes will be formed in F<sub>1</sub> in a trihybrid cross?

1. 27
2. 4
3. 8
4. 16

Options :

- 55317212001. 1
- 55317212002. 2
- 55317212003. 3
- 55317212004. 4

Question Number : 102 Question Id : 5531723016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The enzyme reverse transcriptase was discovered by

1. Watson and Crick
2. Kary Mullis
3. Gilbert
4. Temin and Baltimore

Options :

- 55317212005. 1
- 55317212006. 2
- 55317212007. 3
- 55317212008. 4

Question Number : 103 Question Id : 5531723017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In tRNA molecule, the D arm is named for the presence of the base

1. Dihydrouridine
2. Thymidine
3. Pseudouridine
4. Uridine

Options :

- 55317212009. 1
- 55317212010. 2
- 55317212011. 3
- 55317212012. 4

Question Number : 104 Question Id : 5531723018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Tifton A cytoplasm is found in

1. Sorghum
2. Rice
3. Pearl millet
4. Pigeon pea

Options :

55317212013. 1  
55317212014. 2  
55317212015. 3  
55317212016. 4

Question Number : 105 Question Id : 5531723019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the source of D genome of wheat?

1. *Aegilops tauschii*
2. *T. monococcum*
3. *Aegilops speltoides*
4. *Aegilops squarrosa*

Options :

55317212017. 1  
55317212018. 2  
55317212019. 3  
55317212020. 4

Question Number : 106 Question Id : 5531723020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Red leaf of cotton is caused due to deficiency of

1. Nitrogen
2. Boron
3. Calcium
4. Silicon

Options :

55317212021. 1  
55317212022. 2  
55317212023. 3  
55317212024. 4

Question Number : 107 Question Id : 5531723021 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which of the following is NOT a physiological disease?

1. Black heart of potato
2. Tip burn of paddy
3. Dieback of linseed
4. Marsh spot of peas

Options :

55317212025. 1  
55317212026. 2  
55317212027. 3  
55317212028. 4

Question Number : 108 Question Id : 5531723022 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Common scab of potato is caused by

1. *Synchytrium endobioticum*
2. *Spongospora subterrana*
3. *Rhizoctonia bataticola*
4. *Streptomyces scabies*

Options :

55317212029. 1  
55317212030. 2  
55317212031. 3  
55317212032. 4

Question Number : 109 Question Id : 5531723023 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Peach leaf curl is caused by

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

Options :

55317212033. 1  
55317212034. 2  
55317212035. 3  
55317212036. 4

Question Number : 110 Question Id : 5531723024 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Green ear disease of Pearl millet is caused by

1. *Tolyposporium penicillariae*
2. *Sclerospora graminicola*
3. *Claviceps microcephala*
4. *Curvularia penniseti*

Options :

55317212037. 1  
55317212038. 2  
55317212039. 3  
55317212040. 4

Question Number : 111 Question Id : 5531723025 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Sheath rot disease in paddy is caused by

1. *Pyricularia enyzae*
2. *Sarocladium oryzae*
3. *Rhizoctonia oryzae*
4. *Helminthosporium oryzae*

Options :

55317212041. 1  
55317212042. 2  
55317212043. 3  
55317212044. 4

Question Number : 112 Question Id : 5531723026 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Soybean rust is caused by

1. *Puccinia glycines*
2. *Puccinia graminis*
3. *Phakospora pachyrokizi*
4. *Macrophomina phaseolina*

Options :

55317212045. 1  
55317212046. 2  
55317212047. 3  
55317212048. 4

Question Number : 113 Question Id : 5531723027 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





Okazaki fragment is related to

1. DNA synthesis
2. Protein synthesis
3. mRNA formation
4. tRNA formation

Options :

- 55317212049. 1
- 55317212050. 2
- 55317212051. 3
- 55317212052. 4

Question Number : 114 Question Id : 5531723028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the best suited stage of cell division for *in situ* hybridization in species where chromosome length is very short (eg. pulses).

1. Metaphase
2. Pachytene
3. Telophase
4. Diakinesis

Options :

- 55317212053. 1
- 55317212054. 2
- 55317212055. 3
- 55317212056. 4

Question Number : 115 Question Id : 5531723029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

'Bulked segregant analysis' was proposed by

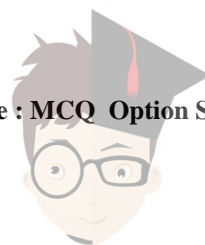
1. Vos et al.
2. Williams et al.
3. Botstein et al.
4. Michelmore et al.

Options :

- 55317212057. 1
- 55317212058. 2
- 55317212059. 3
- 55317212060. 4

Question Number : 116 Question Id : 5531723030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



If total no. of 'n' inbred lines are involved, then the total no. of possible synthetics is

1.  $N = 2 - 2^n - 1$

2.  $N = 2 - 2^n - n$

3.  $N = S\bar{y}_{n_1} - \frac{(S\bar{y}_{n_1} - S\bar{y}_{n_0})}{n}$

4.  $N = 2^n - n - 1$

Options :

55317212061. 1

55317212062. 2

55317212063. 3

55317212064. 4

Question Number : 117 Question Id : 5531723031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If fertility of the pollen is determined by the genotype of the pollen itself in  $F_1$ , then it is

1. sporophytic male sterility
2. gametophytic male sterility
3. cytoplasmic male sterility
4. apomictic plants

Options :

55317212065. 1

55317212066. 2

55317212067. 3

55317212068. 4

Question Number : 118 Question Id : 5531723032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Single nucleotide polymorphism (SNP) is

1. biallelic
2. triallelic
3. monoallelic
4. null allele

Options :

55317212069. 1

55317212070. 2

55317212071. 3

55317212072. 4

Question Number : 119 Question Id : 5531723033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



The first enzyme to be purified and crystallized was

1. urease
2. diastase
3. insulin
4. zymase

Options :

55317212073. 1  
55317212074. 2  
55317212075. 3  
55317212076. 4

Question Number : 120 Question Id : 5531723034 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following comes under nutria-cereals?

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

Options :

55317212077. 1  
55317212078. 2  
55317212079. 3  
55317212080. 4

Question Number : 121 Question Id : 5531723035 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the total no. of anthers found in a rice floret?

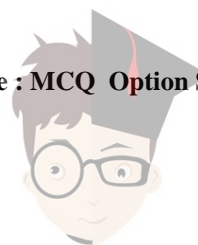
1. 3
2. 4
3. 5
4. 6

Options :

55317212081. 1  
55317212082. 2  
55317212083. 3  
55317212084. 4

Question Number : 122 Question Id : 5531723036 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which stain is generally used for staining mitochondria?

1. Acetocarmine
2. Acetoorcein
3. Potassium iodide
4. Janus green B

Options :

55317212085. 1  
55317212086. 2  
55317212087. 3  
55317212088. 4

Question Number : 123 Question Id : 5531723037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Vit B<sub>1</sub> is also known as

1. Thiamine
2. Riboflavin
3. Niacin
4. Biotin

Options :

55317212089. 1  
55317212090. 2  
55317212091. 3  
55317212092. 4

Question Number : 124 Question Id : 5531723038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bioassay of cytokinin is done by conducting

1. Dwarf maize test
2. Cotyledonary expansion test
3. Avena coleoptile test
4. Rice tip test

Options :

55317212093. 1  
55317212094. 2  
55317212095. 3  
55317212096. 4

Question Number : 125 Question Id : 5531723039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Root nodules contain

1. haploid cells
2. diploid cells
3. triploid cells
4. tetraploid cells

Options :

55317212097. 1  
55317212098. 2  
55317212099. 3  
55317212100. 4

Question Number : 126 Question Id : 5531723040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Scientific name of maize used to make popcorn is

1. *Zea mays indurata*
2. *Zea mays saccharata*
3. *Zea mays amylacea*
4. *Zea mays everta*

Options :

55317212101. 1  
55317212102. 2  
55317212103. 3  
55317212104. 4

Question Number : 127 Question Id : 5531723041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

L – DOPA, useful as a drug for Parkinson's disease has been isolated from

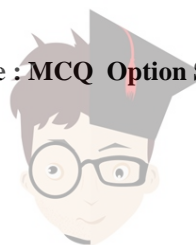
1. *Coptis japonica*
2. *Thalictrum spp.*
3. *Phellodendron amurense*
4. *Vina faba*

Options :

55317212105. 1  
55317212106. 2  
55317212107. 3  
55317212108. 4

Question Number : 128 Question Id : 5531723042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





What is the primary acceptor of CO<sub>2</sub> in Hatch-Slack cycle?

1. Phosphoenol pyruvic acid
2. Ribulose biphosphate
3. Phosphoglyceric acid
4. Diphosphoglyceric acid

Options :

- 55317212109. 1
- 55317212110. 2
- 55317212111. 3
- 55317212112. 4

Question Number : 129 Question Id : 5531723043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which of the following situations, the enzyme RUBISCO plays dual function during photosynthesis, and produces either 3 phosphoglyceric acid or glycolic acid?

1. In C<sub>3</sub> plants when the CO<sub>2</sub> concentration is higher than that of oxygen
2. In C<sub>3</sub> plants when the oxygen concentration is higher than that of CO<sub>2</sub>
3. In C<sub>4</sub> plants when oxygen concentration is higher than that of CO<sub>2</sub>
4. In CAM plants

Options :

- 55317212113. 1
- 55317212114. 2
- 55317212115. 3
- 55317212116. 4

Question Number : 130 Question Id : 5531723044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A germinating mustard seed converts its lipid into sugar by

1. TCA
2. Calvin cycle
3. Glycolate pathway
4. Glyoxalate cycle

Options :

- 55317212117. 1
- 55317212118. 2
- 55317212119. 3
- 55317212120. 4

Question Number : 131 Question Id : 5531723045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical



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Correct Marks : 4 Wrong Marks : 1

Complex corrin ring system and cobalt is present in

1. Vit B<sub>2</sub>
2. Vit B<sub>6</sub>
3. Vit B<sub>1</sub>
4. Vit B<sub>12</sub>

Options :

55317212121. 1

55317212122. 2

55317212123. 3

55317212124. 4

Question Number : 132 Question Id : 5531723046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following amino acids are aromatic in nature?

1. Aspartic acid and glutamic acid
2. Proline and histidine
3. Lysine and arginine
4. Phenyl alanine and tyrosine

Options :

55317212125. 1

55317212126. 2

55317212127. 3

55317212128. 4

Question Number : 133 Question Id : 5531723047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The enzyme GOGAT stands for

1. Glutamine 2-oxoglutarate aminotransferase
2. Glutamate oxoglutarate aminotransferase
3. Glutamine oxoglutarate aldolase
4. Glutamine 2-oxoglutarate

Options :

55317212129. 1

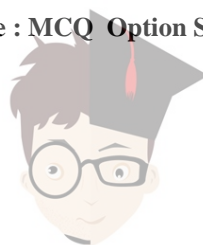
55317212130. 2

55317212131. 3

55317212132. 4

Question Number : 134 Question Id : 5531723048 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Scientific name of 'pulse beetle' is

1. *Tribolium castaneum*
2. *Rhizopertha dominica*
3. *Callosobruchus chineusis*
4. *Plodia interpunctella*

Options :

55317212133. 1  
55317212134. 2  
55317212135. 3  
55317212136. 4

Question Number : 135 Question Id : 5531723049 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ecdysone is a/an

1. chemo-sterilant
2. pheromones
3. repellents
4. insect growth regulator

Options :

55317212137. 1  
55317212138. 2  
55317212139. 3  
55317212140. 4

Question Number : 136 Question Id : 5531723050 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Use of juvenile hormone and sex attractant comes under

1. 1st generation insecticides
2. 2nd generation insecticides
3. 3rd generation insecticides
4. 4th generation insecticides

Options :

55317212141. 1  
55317212142. 2  
55317212143. 3  
55317212144. 4

Question Number : 137 Question Id : 5531723051 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Which order of insects is commonly used as a biological control agent?

1. Coleoptera
2. Hemiptera
3. Diptera
4. Hymenoptera

**Options :**

55317212145. 1  
55317212146. 2  
55317212147. 3  
55317212148. 4

**Question Number : 138 Question Id : 5531723052 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Who proposed the concept of 'Gene Pool'?

1. Vavilov
2. Barbara McClintock
3. Harlan and de Wet.
4. Mather and Jink

**Options :**

55317212149. 1  
55317212150. 2  
55317212151. 3  
55317212152. 4

**Question Number : 139 Question Id : 5531723053 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Gir National Park is known for conservation of

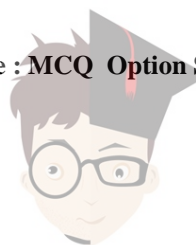
1. Tiger
2. Rhino
3. Asiatic Lion
4. Pelican

**Options :**

55317212153. 1  
55317212154. 2  
55317212155. 3  
55317212156. 4

**Question Number : 140 Question Id : 5531723054 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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



Die back disease is caused by the

1. virus
2. fungi
3. deficiency of 'Cu'
4. deficiency of 'Zn'

Options :

- 55317212157. 1
- 55317212158. 2
- 55317212159. 3
- 55317212160. 4

Question Number : 141 Question Id : 5531723055 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pahala blight of sugarcane is caused due to deficiency of

1. Mn
2. Mo
3. Cu
4. S

Options :

- 55317212161. 1
- 55317212162. 2
- 55317212163. 3
- 55317212164. 4

Question Number : 142 Question Id : 5531723056 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the common step between aerobic and anaerobic respiration.

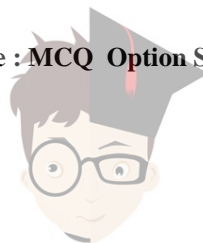
1. glycolysis
2. citric acid cycle
3. ETC
4. glycolysis, citric acid cycle, and ETC

Options :

- 55317212165. 1
- 55317212166. 2
- 55317212167. 3
- 55317212168. 4

Question Number : 143 Question Id : 5531723057 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





'EDVs' are

1. Extant derived varieties
2. Extinct derived varieties
3. Expressed derived varieties
4. Essentially derived varieties

Options :

55317212169. 1  
55317212170. 2  
55317212171. 3  
55317212172. 4

Question Number : 144 Question Id : 5531723058 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In 1965, which famous rose breeder was appointed as First  
Director General of ICAR was

1. B. P. Pal
2. M. S. Swaminathan
3. Har Bhajan Singh
4. S. A. Hydari

Options :

55317212173. 1  
55317212174. 2  
55317212175. 3  
55317212176. 4

Question Number : 145 Question Id : 5531723059 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Total no. of nuclei involved in double fertilization in normal diploid  
plant is

1. 3
2. 9
3. 5
4. 4

Options :

55317212177. 1  
55317212178. 2  
55317212179. 3  
55317212180. 4

Question Number : 146 Question Id : 5531723060 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



The tag colour of breeder seed is

1. opel green
2. white
3. blue
4. golden yellow

**Options :**

55317212181. 1  
55317212182. 2  
55317212183. 3  
55317212184. 4

**Question Number : 147 Question Id : 5531723061 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The inner layer of ovary wall of an angiosperm is

1. Exocarp
2. Endocarp
3. Mesocarp
4. Polycarp

**Options :**

55317212185. 1  
55317212186. 2  
55317212187. 3  
55317212188. 4

**Question Number : 148 Question Id : 5531723062 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

French bean seeds are produced by

1. self-pollination
2. often cross pollination
3. cross pollination
4. self-incompatibility

**Options :**

55317212189. 1  
55317212190. 2  
55317212191. 3  
55317212192. 4

**Question Number : 149 Question Id : 5531723063 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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



Biologically, seed is a matured

1. ovary
2. ovule
3. fruit
4. capsule

Options :

55317212193. 1  
55317212194. 2  
55317212195. 3  
55317212196. 4

Question Number : 150 Question Id : 5531723064 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Apomictic seed is seed produced

1. by fertilization
2. by vegetative nuclei
3. without fertilization
4. produced inside thalamus

Options :

55317212197. 1  
55317212198. 2  
55317212199. 3  
55317212200. 4

Question Number : 151 Question Id : 5531723065 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Genetic purity of nucleus seed is

1. 99%
2. 98%
3. 99.5%
4. 100%

Options :

55317212201. 1  
55317212202. 2  
55317212203. 3  
55317212204. 4

Question Number : 152 Question Id : 5531723066 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



The seed replacement rate of hybrid seeds is

1. 40%
2. 50%
3. 100%
4. 75%

Options :

- 55317212205. 1
- 55317212206. 2
- 55317212207. 3
- 55317212208. 4

Question Number : 153 Question Id : 5531723067 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In cereals, phytin is stored in

1. Aleuron layer
2. Endosperm
3. Scutellum
4. Embryo

Options :

- 55317212209. 1
- 55317212210. 2
- 55317212211. 3
- 55317212212. 4

Question Number : 154 Question Id : 5531723068 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In germination test, what is the minimum number of replication as per ISTA?

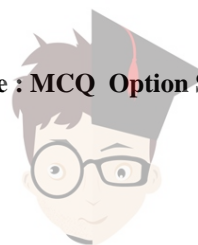
1. one
2. three
3. two
4. four

Options :

- 55317212213. 1
- 55317212214. 2
- 55317212215. 3
- 55317212216. 4

Question Number : 155 Question Id : 5531723069 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Staggered sowing is practiced for

1. good field establishment
2. uniform flowering
3. tolerance to pests
4. easy harvesting

Options :

- 55317212217. 1
- 55317212218. 2
- 55317212219. 3
- 55317212220. 4

Question Number : 156 Question Id : 5531723070 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

ICAR-India Institute of Pulses Research is located at

1. Varanasi
2. Mau
3. Kanpur
4. Lucknow

Options :

- 55317212221. 1
- 55317212222. 2
- 55317212223. 3
- 55317212224. 4

Question Number : 157 Question Id : 5531723071 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is a surface fibre?

1. Jute
2. Cotton
3. Flax
4. Sisal

Options :

- 55317212225. 1
- 55317212226. 2
- 55317212227. 3
- 55317212228. 4

Question Number : 158 Question Id : 5531723072 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





Which element is a part of chlorophyll?

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

Options :

55317212229. 1

55317212230. 2

55317212231. 3

55317212232. 4

Question Number : 159 Question Id : 5531723073 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

XYZ system for hybrid production was proposed for

1. wheat
2. barley
3. triticale
4. rice

Options :

55317212233. 1

55317212234. 2

55317212235. 3

55317212236. 4

Question Number : 160 Question Id : 5531723074 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Triticale is a man-made cereal produced by crossing

1. *T. aestivum* × *Secale cereal*
2. *T. monococcum* × *T. speltoides*
3. *T. bacticum* × *T. turgidum*
4. *Einkorn* × *Emmer*

Options :

55317212237. 1

55317212238. 2

55317212239. 3

55317212240. 4



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