

# National Testing Agency

<b>Question Paper Name :</b>	Plant Pathology 17th September Shift 2
<b>Subject Name :</b>	Plant Pathology
<b>Creation Date :</b>	2021-09-17 18:54:19
<b>Duration :</b>	120
<b>Total Marks :</b>	480
<b>Display Marks:</b>	Yes

## Plant Pathology

<b>Group Number :</b>	1
<b>Group Id :</b>	19088978
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A: General Knowledge

<b>Section Id :</b>	190889158
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory



<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889198
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 1908898662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

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

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

**Options :**

- 19088934541. 1
- 19088934542. 2
- 19088934543. 3
- 19088934544. 4

**Question Number : 2 Question Id : 1908898663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1**

Optical fibre used the concept of which of the following?

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



**Options :**

19088934545. 1

19088934546. 2

19088934547. 3

19088934548. 4

**Question Number : 3 Question Id : 1908898664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934549. 1

19088934550. 2

19088934551. 3

19088934552. 4

**Question Number : 4 Question Id : 1908898665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934553. 1

19088934554. 2

19088934555. 3



19088934556. 4

**Question Number : 5 Question Id : 1908898666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934557. 1

19088934558. 2

19088934559. 3

19088934560. 4

**Question Number : 6 Question Id : 1908898667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934561. 1

19088934562. 2

19088934563. 3

19088934564. 4

**Question Number : 7 Question Id : 1908898668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**



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

The digital computer operates on which of the following principle?

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

**Options :**

19088934565. 1

19088934566. 2

19088934567. 3

19088934568. 4

**Question Number : 8 Question Id : 1908898669 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088934569. 1

19088934570. 2

19088934571. 3

19088934572. 4

**Question Number : 9 Question Id : 1908898670 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



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

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

**Options :**

19088934573. 1

19088934574. 2

19088934575. 3

19088934576. 4

**Question Number : 10 Question Id : 1908898671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934577. 1

19088934578. 2

19088934579. 3

19088934580. 4

**Question Number : 11 Question Id : 1908898672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

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

**Options :**

19088934581. 1

19088934582. 2

19088934583. 3

19088934584. 4

**Question Number : 12 Question Id : 1908898673 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088934585. 1

19088934586. 2

19088934587. 3

19088934588. 4

**Question Number : 13 Question Id : 1908898674 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



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

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

**Options :**

19088934589. 1

19088934590. 2

19088934591. 3

19088934592. 4

**Question Number : 14 Question Id : 1908898675 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088934593. 1

19088934594. 2

19088934595. 3

19088934596. 4

**Question Number : 15 Question Id : 1908898676 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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





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

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

**Options :**

19088934597. 1

19088934598. 2

19088934599. 3

19088934600. 4

**Question Number : 16 Question Id : 1908898677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934601. 1

19088934602. 2

19088934603. 3

19088934604. 4

**Question Number : 17 Question Id : 1908898678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

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

**Options :**

19088934605. 1

19088934606. 2

19088934607. 3

19088934608. 4

**Question Number : 18 Question Id : 1908898679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

What is the focus of the participatory plant breeding program?

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

**Options :**

19088934609. 1

19088934610. 2

19088934611. 3

19088934612. 4

**Question Number : 19 Question Id : 1908898680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

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

**Options :**

19088934613. 1

19088934614. 2

19088934615. 3

19088934616. 4

**Question Number : 20 Question Id : 1908898681 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088934617. 1

19088934618. 2

19088934619. 3

19088934620. 4

## Part B Core : Crop Sciences-II

**Section Id :**

**Section Number :**

**Section type :**



190889159

2

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<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889199
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 1908898682 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Crown gall disease of plant is caused by *Agrobacterium tumefaciens*

**Statement II:** Ti-plasmid contains T-DNA where it integrates into the nuclear genome

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

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

**Options :**

19088934621. 1

19088934622. 2

19088934623. 3

19088934624. 4

**Question Number : 22 Question Id : 1908898683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

List I	List II
A. Apothecium	I. A group of conidiophores cemented together
B. Cleistothecium	II. A closed ascocarp with a pore at top
C. Synnema	III. A completely closed ascocarp
D. Perithecium	IV. An open ascocarp

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

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

**Options :**

19088934625. 1

19088934626. 2

19088934627. 3

19088934628. 4

**Question Number : 23 Question Id : 1908898684 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

For the first time, copper sulphate was used as wheat seed treatment to control

1. Smut
2. Bunt
3. Yellow rot
4. Rust

**Options :**

19088934629. 1

19088934630. 2

19088934631. 3

19088934632. 4



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**Question Number : 24 Question Id : 1908898685 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Given below are two statements

**Statement I:** *Candidatus phytoplasma* is a wall-less prokaryote transmitted by leaf hopper

**Statement II:** *Candidatus phytoplasma* is highly sensitive to tetracycline antibiotic

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

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

**Options :**

19088934633. 1

19088934634. 2

19088934635. 3

19088934636. 4

**Question Number : 25 Question Id : 1908898686 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Non-edible oyster mushroom is

1. *Pleurotus ostreatus*
2. *Pleurotus citrinopileatus*
3. *Pleurotus salmoneo*
4. *Pleurotus olearius*

**Options :**

19088934637. 1

19088934638. 2

19088934639. 3

19088934640. 4



**Question Number : 26 Question Id : 1908898687 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

The cell wall composition of oomycetes fungi is

1. Chitin
2. Cellulose
3. Glycogen
4. Chitosan

**Options :**

19088934641. 1

19088934642. 2

19088934643. 3

19088934644. 4

**Question Number : 27 Question Id : 1908898688 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

The term "Pathovar" is used in the taxonomy of plant pathogens belonging to

1. Mycoplasma
2. Fungi
3. Nematodes
4. Bacteria

**Options :**

19088934645. 1

19088934646. 2

19088934647. 3

19088934648. 4

**Question Number : 28 Question Id : 1908898689 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Match List I with List II

List I	List II
A. <i>Illeis cincta</i>	I. Wheat rust
B. <i>Brevenia rehi</i>	II. Plant viruses
C. IARI Regional Station, Pune	III. Stunted paddy in circular patches
D. IARI Regional Station, Wellington	IV. Mycophagous

Choose the correct answer from the options given below:

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

Options :

19088934649. 1

19088934650. 2

19088934651. 3

19088934652. 4

Question Number : 29 Question Id : 1908898690 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Tabtoxin	I. <i>Alternaria alternate</i>
B. Tentoxin	II. <i>Cochiobolus carbonum</i>
C. H C-Toxin	III. <i>Pseudomonas syringae</i>
D. P C-Toxin	IV. <i>Periconia circinta</i>

Choose the correct answer from the options given below:

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

Options :





19088934653. 1

19088934654. 2

19088934655. 3

19088934656. 4

**Question Number : 30 Question Id : 1908898691 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Aphid transmitted non-persistent virus is

A. Afamovirus

B. Nanovirus

C. Fabavirus

D. Potyvirus

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

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

**Options :**

19088934657. 1

19088934658. 2

19088934659. 3

19088934660. 4

**Question Number : 31 Question Id : 1908898692 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



Given below are two statements

**Statement I:** Leaf streak disease of rice is caused by Xanthomonas oryzae.

**Statement II:** Leaf streak disease is a vascular disease.

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

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

**Options :**

19088934661. 1

19088934662. 2

19088934663. 3

19088934664. 4

**Question Number : 32 Question Id : 1908898693 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Salicylic acid reacts with two major  $H_2O_2$ -scavenging plant enzymes

- A. Catalase
- B. Ascorbate peroxidase
- C. Aconitase
- D. Cellulase

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

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

**Options :**

19088934665. 1



19088934666. 2

19088934667. 3

19088934668. 4

**Question Number : 33 Question Id : 1908898694 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Aflatoxin in peanuts is caused by

1. *Aspergillus niger*
2. *Aspergillus fumigatus*
3. *Aspergillus flavus*
4. *Aspergillus nidulans*

**Options :**

19088934669. 1

19088934670. 2

19088934671. 3

19088934672. 4

**Question Number : 34 Question Id : 1908898695 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Fungal pathogen produces enzyme to degrade cuticular wax

1. *Alternaria solani*
2. *Colletotrichum capsici*
3. *Puccinia hordei*
4. *Albugo nidulans*

**Options :**

19088934673. 1

19088934674. 2

19088934675. 3

19088934676. 4



**Question Number : 35 Question Id : 1908898696 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** *Rhabditis plectus* and *Wilsonema otophorum* are entomopathogenic

**Statement II:** *Steinernema* and *Heterorhabditis* are entomopathogenic

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

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

**Options :**

19088934677. 1

19088934678. 2

19088934679. 3

19088934680. 4

**Question Number : 36 Question Id : 1908898697 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Triehanolamine formalin is used as fixative to fix

1. Nematodes
2. Immature insects
3. Mites
4. Fish embryo

**Options :**

19088934681. 1

19088934682. 2

19088934683. 3



19088934684. 4

**Question Number : 37 Question Id : 1908898698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Following is characterized by having ribbed bursa

1. *Ditylenchus dipsaci*
2. *Helicotylenchus dihystra*
3. *Aphelenchus avenae*
4. *Pratylenchus penetrans*

**Options :**

19088934685. 1

19088934686. 2

19088934687. 3

19088934688. 4

**Question Number : 38 Question Id : 1908898699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** *Mononchus*, *Dorylaimus* and *Actimolaimus* are predatory soil inhabiting nematodes

**Statement II:** *Belonolaimus*, *Dolichodoros* and *Trichodoros* are plant parasite nematodes

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

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

**Options :**

19088934689. 1



19088934690. 2

19088934691. 3

19088934692. 4

**Question Number : 39 Question Id : 1908898700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Nurse cells at feeding site are induced by

1. *Tylenchuhus semipenetrans*
2. *Rotylenchulus reniformis*
3. *Heterodera avenae*
4. *Pratylenchus subpenetrans*

**Options :**

19088934693. 1

19088934694. 2

19088934695. 3

19088934696. 4

**Question Number : 40 Question Id : 1908898701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

List I	List II
A. Ufra	I. <i>Heterodera</i>
B. Cyst	II. <i>Meloidogyne</i>
C. Gall	III. <i>Dorylaimus</i>
D. Soil inhabitant	IV. <i>Ditylenchus</i>

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

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

**Options :**

19088934697. 1

19088934698. 2

19088934699. 3

19088934700. 4

**Question Number : 41 Question Id : 1908898702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Predatory soil nematodes act as a biocontrol agents against plant parasitic nematodes

**Statement II:** *Pratylenchus* and *Radopholus* are ectoparasitic on plant roots

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

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

**Options :**

19088934701. 1



19088934702. 2

19088934703. 3

19088934704. 4

**Question Number : 42 Question Id : 1908898703 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Plants infected by *Meloidogyne incognita*, present above ground symptoms as

- A. Water and nutrient stress
- B. Hypertrophy and Hyperplasia
- C. Wilting and stunting
- D. Yellowing of plant

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

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

**Options :**

19088934705. 1

19088934706. 2

19088934707. 3

19088934708. 4

**Question Number : 43 Question Id : 1908898704 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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





*Heterodera avenae* is an important pest of

1. Maize and sorghum
2. Pigeon pea, and Chickpea
3. Wheat and barley
4. Rice and Ragi

**Options :**

19088934709. 1

19088934710. 2

19088934711. 3

19088934712. 4

**Question Number : 44 Question Id : 1908898705 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

*Scutellonema bradys* is a pest of

1. Potato
2. Yam
3. Cowpea
4. Grapevine

**Options :**

19088934713. 1

19088934714. 2

19088934715. 3

19088934716. 4

**Question Number : 45 Question Id : 1908898706 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



First plant parasite nematode, *Angutina tritici* was named *Vibrio tritici* by J.T. Needham in the year

1. 1853
2. 1743
3. 1756
4. 1734

**Options :**

19088934717. 1

19088934718. 2

19088934719. 3

19088934720. 4

**Question Number : 46 Question Id : 1908898707 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

List I	List II
A. Mites in cotton	I. 1-2 nymphs/adults per leaf
B. Thrips in cotton	II. 10/cm per leaf
C. Whitefly in cotton	III. 5-10 per leaf
D. Aphids in cotton	IV. 15-20% of plants infested

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

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

**Options :**

19088934721. 1

19088934722. 2

19088934723. 3

19088934724. 4



**Question Number : 47 Question Id : 1908898708 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

The enzyme involved in melanogenesis is

1. Tyrosinase
2. Protenase
3. Lipase
4. Cellulase

**Options :**

19088934725. 1

19088934726. 2

19088934727. 3

19088934728. 4

**Question Number : 48 Question Id : 1908898709 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Given below are two statements

**Statement I:** The interval between the moulting is known as instar

**Statement II:** The skins casted by the insect are known as exuviae

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

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

**Options :**

19088934729. 1

19088934730. 2

19088934731. 3

19088934732. 4



**Question Number : 49 Question Id : 1908898710 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which vitamins are essential to insects?

1. Vitamin A & E
2. Vitamin B & D
3. Vitamin A & C
4. Vitamin C & D

**Options :**

19088934733. 1

19088934734. 2

19088934735. 3

19088934736. 4

**Question Number : 50 Question Id : 1908898711 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which of the following is called obligate symbiosis?

1. Commensalism
2. Mutualism
3. Proto co-operation
4. Amensalism

**Options :**

19088934737. 1

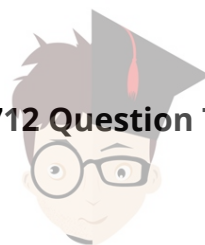
19088934738. 2

19088934739. 3

19088934740. 4

**Question Number : 51 Question Id : 1908898712 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**



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

Which caste of the termite causes damage to crops?

1. King
2. Queen
3. Worker
4. Soldier

**Options :**

19088934741. 1

19088934742. 2

19088934743. 3

19088934744. 4

**Question Number : 52 Question Id : 1908898713 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which of the following is the breeding host for fruit sucking moth *Eudocima* spp?

1. *Tinospora cardifolia*
2. *Gynandropsis pentaphylla*
3. *Ipomea* sp.
4. *Triumfetta rhomboidea*

**Options :**

19088934745. 1

19088934746. 2

19088934747. 3

19088934748. 4

**Question Number : 53 Question Id : 1908898714 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Given below are two statements

**Statement I:** Gas released from aluminium phosphide depletes ozone layer

**Statement II:** Gas released from methyl bromide does not deplete ozone layer

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

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

**Options :**

19088934749. 1

19088934750. 2

19088934751. 3

19088934752. 4

**Question Number : 54 Question Id : 1908898715 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The droplet size in aerosol spray is

1.  $>500\mu$
2.  $300-500\mu$
3.  $100-300\mu$
4.  $<60\mu$

**Options :**

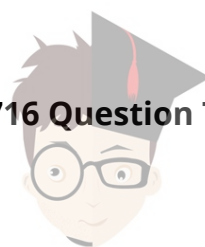
19088934753. 1

19088934754. 2

19088934755. 3

19088934756. 4

**Question Number : 55 Question Id : 1908898716 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**



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

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

List I	List II
A. Orifice plate	I. Prevents debris entering the orifice
B. Whirl plate	II. Prevents leakage
C. Spacer	III. Regulate the flow rate
D. Strainer	IV. Rotates the fluid

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

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

**Options :**

19088934757. 1

19088934758. 2

19088934759. 3

19088934760. 4

**Question Number : 56 Question Id : 1908898717 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Field coverage of soil injecting gun (2lit cap) in case of nematicidal fumigant application is

1. 0.5 ha
2. 1.0 ha
3. 1.5 ha
4. 2.0 ha

**Options :**

19088934761. 1

19088934762. 2

19088934763. 3

19088934764. 4



Question Number : 57 Question Id : 1908898718 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Bromadiolone	I. Contact and stomach poison
B. Sulphur	II. Contact and fumigant
C. Malathion	III. Contact poison
D. Dichlorvos	IV. Anticoagulant

Choose the correct answer from the options given below:

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

Options :

19088934765. 1

19088934766. 2

19088934767. 3

19088934768. 4

Question Number : 58 Question Id : 1908898719 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Following is the most dominating biocontrol agent of water hyacinth in India

1. *Neochetina* spp.
2. *Cyrtobagous salviniae*
3. *Agasicles hygrophila*
4. *Teleonemaia scrupulosa*

Options :

19088934769. 1

19088934770. 2

19088934771. 3





19088934772. 4

**Question Number : 59 Question Id : 1908898720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which of the termite caste is fertile?

1. Presoldiers
2. Alates
3. Worker
4. Soldiers

**Options :**

19088934773. 1

19088934774. 2

19088934775. 3

19088934776. 4

**Question Number : 60 Question Id : 1908898721 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Powdery mildew in mulberry is caused by

1. *Phyllactina corylea*
2. *Meloidogyne incognita*
3. *Acidium mori*
4. *Cercospora moricola*

**Options :**

19088934777. 1

19088934778. 2

19088934779. 3

19088934780. 4



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**Question Number : 61 Question Id : 1908898722 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Uzi fly belongs to the family

1. Meloidae
2. Tachinidae
3. Saturnidae
4. Pyralidae

**Options :**

19088934781. 1

19088934782. 2

19088934783. 3

19088934784. 4

**Question Number : 62 Question Id : 1908898723 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Covering of soil in-between rows of mulberry with organic waste is known as

1. Manuring
2. Mulching
3. Solarization
4. Flooding

**Options :**

19088934785. 1

19088934786. 2

19088934787. 3

19088934788. 4

**Question Number : 63 Question Id : 1908898724 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Mulberry is largely pollinated by

1. Honey bees
2. Wind
3. Birds
4. Butterflies

**Options :**

19088934789. 1

19088934790. 2

19088934791. 3

19088934792. 4

**Question Number : 64 Question Id : 1908898725 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Glands that discharge their products directly into blood stream are called

1. Endocrine
2. Secretary
3. Exocrine
4. Salivary

**Options :**

19088934793. 1

19088934794. 2

19088934795. 3

19088934796. 4

**Question Number : 65 Question Id : 1908898726 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



The silkworm respire through

1. Gills
2. Air sacs
3. Book lungs
4. Tracheae

**Options :**

19088934797. 1

19088934798. 2

19088934799. 3

19088934800. 4

**Question Number : 66 Question Id : 1908898727 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

The scientific name of castor is

1. *Morus alba*
2. *Carica papaya*
3. *Samia ricini*
4. *Ricinus communis*

**Options :**

19088934801. 1

19088934802. 2

19088934803. 3

19088934804. 4

**Question Number : 67 Question Id : 1908898728 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Calcified cocoons are the ones destroyed by

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

**Options :**

19088934805. 1

19088934806. 2

19088934807. 3

19088934808. 4

**Question Number : 68 Question Id : 1908898729 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The recommended quantity of FYM/compost for irrigated mulberry garden/ha/year is

1. 40 MT
2. 30 MT
3. 20 MT
4. 10 MT

**Options :**

19088934809. 1

19088934810. 2

19088934811. 3

19088934812. 4

**Question Number : 69 Question Id : 1908898730 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



The hibernating eggs are preserved in

1. Cold storage
2. Oven
3. Incubator
4. Refrigerator

**Options :**

19088934813. 1

19088934814. 2

19088934815. 3

19088934816. 4

**Question Number : 70 Question Id : 1908898731 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Most effective method of irrigation involving less wastage of water in moriculture is

1. Flood irrigation
2. Drip irrigation
3. Sprinkler irrigation
4. Furrow irrigation

**Options :**

19088934817. 1

19088934818. 2

19088934819. 3

19088934820. 4

## Part C : Plant Pathology

**Section Id :**

190889160

**Section Number :**

3

**Section type :**

Online

**Mandatory or Optional :**

Mandatory



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<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889200
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 1908898732 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which is the first barrier against invasion in the plants by fungal pathogens?

1. Epidermis
2. Cuticle
3. Middle lamella
4. Cell membrane

**Options :**

19088934821. 1

19088934822. 2

19088934823. 3

19088934824. 4

**Question Number : 72 Question Id : 1908898733 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Given below are two statements

**Statement I:** *Striga* form bulb shaped haustorium which presses against the host root.

**Statement II:** The haustorium dissolves host cells by enzyme secretions.

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

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

**Options :**

19088934825. 1

19088934826. 2

19088934827. 3

19088934828. 4

**Question Number : 73 Question Id : 1908898734 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The pathogenic organism that employ force for direct penetration to the plant host is

A. Nematodes

B. Bacteria

C. Fungi

D. Viruses

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

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

**Options :**

19088934829. 1



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19088934830. 2

19088934831. 3

19088934832. 4

**Question Number : 74 Question Id : 1908898735 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The non-selective toxins produced by *Pseudomonas* species are

- A. Amylovorin
- B. Syrigomycin
- C. Phaseolotoxin
- D. Marticin

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

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

**Options :**

19088934833. 1

19088934834. 2

19088934835. 3

19088934836. 4

**Question Number : 75 Question Id : 1908898736 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

List I	List II
A. Victoria	I. <i>Sclerotinia</i>
B. Fumaric acid	II. <i>Alternaria</i>
C. Oxalic acid	III. <i>Helminthosporium</i>
D. AK-toxin	IV. <i>Rhizopus</i>

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

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

**Options :**

19088934837. 1

19088934838. 2

19088934839. 3

19088934840. 4

**Question Number : 76 Question Id : 1908898737 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Given below are two statements

**Statement I:** Lignified plant cell walls provide barriers to hyphal penetration of the pathogen.

**Statement II:** Lignified plant cell walls do not act as a barrier for free movement of nutrients.

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

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

**Options :**



19088934841. 1

19088934842. 2

19088934843. 3

19088934844. 4

**Question Number : 77 Question Id : 1908898738 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Tyloses are formed in which tissue of the plant due pathogen infection

1. Epidermis
2. Phloem parenchyma
3. Xylem vessels
4. Cortex

**Options :**

19088934845. 1

19088934846. 2

19088934847. 3

19088934848. 4

**Question Number : 78 Question Id : 1908898739 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



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

List I	List II
A. Pear	I. Lubimin
B. Potato	II. Glutinosone
C. <i>Vicia faba</i>	III. Hydroquinone
D. Tobacco	IV. Wyrone

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

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

**Options :**

19088934849. 1

19088934850. 2

19088934851. 3

19088934852. 4

**Question Number : 79 Question Id : 1908898740 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Given below are two statements

**Statement I:** Majority of the pathogenesis related (PR) proteins accumulate in extracellular spaces and in the vacuoles.

**Statement II:** PR-1 protein  $\beta$ -1, 3 glucanase do not have antimicrobial activity.

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

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

**Options :**



19088934853. 1

19088934854. 2

19088934855. 3

19088934856. 4

**Question Number : 80 Question Id : 1908898741 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

**Match List I with List II**

<b>List I</b>	<b>List II</b>
A. <i>Erwinia trachiephila</i>	I. <i>Xiphinema ammericanum</i>
B. Tobacco rings pot virus	II. <i>Polymyxa graminis</i>
C. <i>Xyllella fastidiosa</i>	III. <i>Acalymma vittatum</i>
D. Wheat spindle streak virus	IV. <i>Philaenus spumarius</i>

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

**Options :**

19088934857. 1

19088934858. 2

19088934859. 3

19088934860. 4

**Question Number : 81 Question Id : 1908898742 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



Which is the vector of *Rathayibacter tritici* causing yellow ear rot of wheat?

1. *Xiphinema coxi*
2. *Trichodorus similis*
3. *Longidorus elongatus*
4. *Anguina tritici*

**Options :**

19088934861. 1

19088934862. 2

19088934863. 3

19088934864. 4

**Question Number : 82 Question Id : 1908898743 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which of the following pathogen is NOT associated to the vascular disease in plant?

1. *Ralstonia solanacearum*
2. *Fusarium udum*
3. *Rhizoctonia solani*
4. *Xanthomonas campestris* pv. *campestris*

**Options :**

19088934865. 1

19088934866. 2

19088934867. 3

19088934868. 4

**Question Number : 83 Question Id : 1908898744 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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



Who proposed a protein-for-protein hypothesis to explain the molecular basis of gene for gene interaction?

1. Van der Plank
2. Eriksson
3. Biffen
4. Flor

**Options :**

19088934869. 1

19088934870. 2

19088934871. 3

19088934872. 4

**Question Number : 84 Question Id : 1908898745 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** For identification of pathogen races, generally differential hosts of a crop are used

**Statement II:** The differential host contains a particular resistance (R) gene against the pathogen

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

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

**Options :**

19088934873. 1

19088934874. 2

19088934875. 3

19088934876. 4



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**Question Number : 85 Question Id : 1908898746 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

List I	List II
A. <i>Bacillus subtilis</i>	I. Phenazines
B. <i>Agrobacterium radiobacter</i>	II. Pyrones
C. <i>Trichoderma harzianum</i>	III. Agrocin 84
D. <i>Pseudomonas fluorescens</i>	IV. Iturin

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

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

**Options :**

19088934877. 1

19088934878. 2

19088934879. 3

19088934880. 4

**Question Number : 86 Question Id : 1908898747 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Given below are two statements

**Statement I:** Fungal pathogen *Ustilago tritici* causes loose smut disease in wheat

**Statement II:** The *Ustilago tritici* does not infect the embryo

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

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

**Options :**





19088934881. 1

19088934882. 2

19088934883. 3

19088934884. 4

**Question Number : 87 Question Id : 1908898748 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which stage of rust fungus life is called '0' stage?

1. Aecium
2. Pycnium
3. Uredium
4. Telium

**Options :**

19088934885. 1

19088934886. 2

19088934887. 3

19088934888. 4

**Question Number : 88 Question Id : 1908898749 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which disease of the following is seed borne in nature?

1. Brown spot of maize
2. Wilt of pigeon pea
3. Potato spindle tuber disease
4. Root rot of cotton

**Options :**

19088934889. 1

19088934890. 2

19088934891. 3

19088934892. 4



**Question Number : 89 Question Id : 1908898750 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which nucleic acid based technique is used enhance sensitivity of PCR primers for the detection of citrus greening bacterium from plant samples?

1. BIO-PCR
2. Nested-PCR
3. RAPD
4. RT-PCR

**Options :**

19088934893. 1

19088934894. 2

19088934895. 3

19088934896. 4

**Question Number : 90 Question Id : 1908898751 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Which of the following genus of the plant virus belongs to geminiviridae family?

1. *Curtovirus*
2. *Babuvirus*
3. *Caulimovirus*
4. *Tospovirus*

**Options :**

19088934897. 1

19088934898. 2

19088934899. 3

19088934900. 4

**Question Number : 91 Question Id : 1908898752 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**



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

Given below are two statements

**Statement I:** Viroids are ssRNAs, covalently closed circular that replicate autonomously in plants.

**Statement II:** Viroids genome is protected with the protein coat.

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

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

**Options :**

19088934901. 1

19088934902. 2

19088934903. 3

19088934904. 4

**Question Number : 92 Question Id : 1908898753 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

List I	List II
A. <i>Caulimovirus</i>	I. ssDNA
B. <i>Begomovirus</i>	II. dsRNA
C. <i>Phytoreovirus</i>	III. ssRNA
D. <i>Pomovirus</i>	IV. dsDNA

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

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

**Options :**



19088934905. 1

19088934906. 2

19088934907. 3

19088934908. 4

**Question Number : 93 Question Id : 1908898754 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** The plant viruses move from one cell to another through plasmodesmata.

**Statement II:** The plant viruses can cross the cell wall.

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

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

**Options :**

19088934909. 1

19088934910. 2

19088934911. 3

19088934912. 4

**Question Number : 94 Question Id : 1908898755 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which enzyme is used in DAS-ELISA for detection of plant viruses?

1. Bromophenol blue
2. Taq polymerase
3. Alkaline phosphatase
4. Magnesium chloride



**Options :**

19088934913. 1

19088934914. 2

19088934915. 3

19088934916. 4

**Question Number : 95 Question Id : 1908898756 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

List I	List II
A. <i>Plasmopara</i>	I. Club shaped sporangiophores with swollen head
B. <i>Sclerospora</i>	II. Dichotomously branched sporangiophores at acute angles
C. <i>Peronospora</i>	III. The branches of sporangiophores and their subdivisions occur typically at right angles
D. <i>Basidiophora</i>	IV. Long, many upright branches near the end and bear sporangia at the tips.

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

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

**Options :**

19088934917. 1

19088934918. 2

19088934919. 3

19088934920. 4

**Question Number : 96 Question Id : 1908898757 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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



Which of the necrotrophic parasitic fungi are used to control insect pest?

- A. *Nomuraea*
- B. *Alternaria*
- C. *Metarhizium*
- D. *Hirsutella*

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

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

**Options :**

19088934921. 1

19088934922. 2

19088934923. 3

19088934924. 4

**Question Number : 97 Question Id : 1908898758 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Many basidiomycetous fungi operate to ensure the maintenance of the diakaryotic condition in each cell of the secondary mycelium.

**Statement II:** Clamp connections are not formed by fungi during the conjugate division of the nuclei in the tip of the growing hypha.

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

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

**Options :**



19088934925. 1

19088934926. 2

19088934927. 3

19088934928. 4

**Question Number : 98 Question Id : 1908898759 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which fungus is associated in "Holy Fire" condition in humans due to eating of fungal contaminated rye flour?

1. *Alternaria solani*
2. *Sclerotium rolfsii*
3. *Rhizoctonia solani*
4. *Claviceps purpurea*

**Options :**

19088934929. 1

19088934930. 2

19088934931. 3

19088934932. 4

**Question Number : 99 Question Id : 1908898760 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which antibiotic is found more effective to control *Candidatus* Phytoplasma diseases?

1. Penicillin
2. Vancomycin
3. Tetracycline
4. Cephalosprin

**Options :**

19088934933. 1

19088934934. 2

19088934935. 3



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**Question Number : 100 Question Id : 1908898761 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Match List I with List II

List I	List II
A. <i>Podospharea</i>	I. Partially internal mycelium, basal swelling of appendages of cleistothecium
B. <i>Erysiphe</i>	II. Superficial mycelium, several ascus and dichotomously branched appendages of cleistothecium
C. <i>Microsphaera</i>	III. Superficial mycelium, 1 ascus and dichotomously branched appendages of cleistothecium
D. <i>Phyllactinia</i>	IV. Superficial mycelium, several ascus and simple appendages of cleistothecium

Choose the correct answer from the options given below:

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

**Options :**

19088934937. 1

19088934938. 2

19088934939. 3

19088934940. 4

**Question Number : 101 Question Id : 1908898762 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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





Given below are two statements

**Statement I:** Hypersensitivity response and pathogenicity (*hpr*) encoded proteins are localized in the bacterial cell membrane.

**Statement II:** Harpins do not have any role in forming a type III secretory apparatus in gram negative bacteria.

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

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

**Options :**

19088934941. 1

19088934942. 2

19088934943. 3

19088934944. 4

**Question Number : 102 Question Id : 1908898763 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The variety possess vertical resistance is most effective when

- A. It is incorporated in annual crops
- B. It consists of strong genes (R-genes)
- C. Host population consists of a single genetically uniform variety grown under large area
- D. The pathogen does not reproduce and spread rapidly

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

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

**Options :**



19088934945. 1

19088934946. 2

19088934947. 3

19088934948. 4

**Question Number : 103 Question Id : 1908898764 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. <i>Cladosporium fulum</i>	I. Pto
B. <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>	II. RPW8.1
C. <i>Erysiphe orontii</i>	III. Cf2
D. <i>Pseudomonas syringae</i> pv. <i>tomato</i>	IV. Xa21

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

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

**Options :**

19088934949. 1

19088934950. 2

19088934951. 3

19088934952. 4

**Question Number : 104 Question Id : 1908898765 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



Which enzyme of the following does NOT belong to group of pectolytic enzymes?

1. Pectin lyases
2. Glucanase
3. Pectin methyl esterase
4. Polygalacturanases

**Options :**

19088934953. 1

19088934954. 2

19088934955. 3

19088934956. 4

**Question Number : 105 Question Id : 1908898766 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Tissue culture of disease resistance plants is mainly useful with clonally propagated plants.

**Statement II:** The plant production from meristem tissues is the rapid propagation of 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 correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

**Options :**

19088934957. 1

19088934958. 2

19088934959. 3

19088934960. 4

**Question Number : 106 Question Id : 1908898767 Question Type : MCQ Option Shuffling : No**



**Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Systemic acquired resistance (SAR) acts nonspecifically throughout the plant and reduces the severity of disease caused by pathogens.

**Statement II:** SAR is certainly produced in plants following expression of the hypersensitive response.

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

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

**Options :**

19088934961. 1

19088934962. 2

19088934963. 3

19088934964. 4

**Question Number : 107 Question Id : 1908898768 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Some fungi can degrade cutin and used it as sole source of carbon for metabolism.

**Statement II:** Fungi produce chemical to degrade the cuticular wax.

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

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

**Options :**



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19088934965. 1

19088934966. 2

19088934967. 3

19088934968. 4

**Question Number : 108 Question Id : 1908898769 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. Messenger	I. Erwinia
B. Serenade	II. Candida
C. Actigard	III. <i>Benzothiazole</i>
D. Aspire	IV. Bacillus

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

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

**Options :**

19088934969. 1

19088934970. 2

19088934971. 3

19088934972. 4

**Question Number : 109 Question Id : 1908898770 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



Shot holes in most of the leaf spot diseases is due to the formation of

1. Abscission layers
2. Gum deposition
3. Cork layer
4. Tyloses formation

**Options :**

19088934973. 1

19088934974. 2

19088934975. 3

19088934976. 4

**Question Number : 110 Question Id : 1908898771 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. Dichlone	I. Oxanthiins
B. PCNB	II. Heterocyclic compounds
C. Iprodione	III. Aromatic compounds
D. Carboxin	IV. Quinones

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

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

**Options :**

19088934977. 1

19088934978. 2

19088934979. 3

19088934980. 4



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**Question Number : 111 Question Id : 1908898772 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. <i>Green mould rot</i>	I. Apple
B. <i>Bitter rot</i>	II. Peaches
C. <i>Ergot</i>	III. Citrus
D. <i>Brown rot</i>	IV. Pearl millet

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

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

**Options :**

19088934981. 1

19088934982. 2

19088934983. 3

19088934984. 4

**Question Number : 112 Question Id : 1908898773 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Loose smut of wheat caused by *Ustilago tritici* is an internally seed borne disease.

**Statement II:** The *Ustilago tritici* infect the plant at the time of blossoming.

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

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



**Options :**

19088934985. 1

19088934986. 2

19088934987. 3

19088934988. 4

**Question Number : 113 Question Id : 1908898774 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which stage of rust fungus life cycle has site of karyogamy and meiosis?

1. Stage 0
2. Stage I
3. Stage II
4. Stage III

**Options :**

19088934989. 1

19088934990. 2

19088934991. 3

19088934992. 4

**Question Number : 114 Question Id : 1908898775 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which disease of the following is NOT a seed borne nature?

1. Loose smut of wheat
2. Bacterial blight of paddy
3. Leaf roll of potato
4. Root rot of cotton

**Options :**

19088934993. 1

19088934994. 2

19088934995. 3





19088934996. 4

**Question Number : 115 Question Id : 1908898776 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Which factor not associated to the disease tetrahedron?

1. Host
2. Human
3. Pathogen
4. Time

**Options :**

19088934997. 1

19088934998. 2

19088934999. 3

19088935000. 4

**Question Number : 116 Question Id : 1908898777 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Which of the microbes are used to control plant diseases?

- A. *Pseudomonas fluroescens*
- B. *Bacillus amyloliquefaciens*
- C. *Pantoea agglomerans*
- D. *Rhizobium radiobacter*

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

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

**Options :**



19088935001. 1

19088935002. 2

19088935003. 3

19088935004. 4

**Question Number : 117 Question Id : 1908898778 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Given below are two statements

**Statement I:** Many basidiomycetous fungi operate to ensure the maintenance of the diakaryotic condition in each cell of the secondary mycelium

**Statement II:** Clamp connections are formed by fungi during the conjugate division of the nuclei in the tip of the growing hypha

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

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

**Options :**

19088935005. 1

19088935006. 2

19088935007. 3

19088935008. 4

**Question Number : 118 Question Id : 1908898779 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



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Cell wall of which fungus contains cellulose - chitin

1. *Rhizidiomyces* sp.
2. *Sclerotium rolfsii*
3. *Rhizoctoniua solani*
4. *Curvularia* sp.

**Options :**

19088935009. 1

19088935010. 2

19088935011. 3

19088935012. 4

**Question Number : 119 Question Id : 1908898780 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. <i>Boron</i>	I. Storage decay in fruits
B. <i>Zinc</i>	II. Whiptail
C. <i>molybdenum</i>	III. Khaira disease of rice
D. <i>Calcium</i>	IV. Heart rot of sugar beets

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

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

**Options :**

19088935013. 1

19088935014. 2

19088935015. 3

19088935016. 4



Question Number : 120 Question Id : 1908898781 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which pathogen is NOT associated to the vascular wilt disease in plant?

1. *Clavibacter michiganensis* sub sp. *michiganensis*
2. *Fusarium oxysporum*
3. *Xanthomonas euvesicatoria*
4. *Verticillium* sp.

**Options :**

19088935017. 1

19088935018. 2

19088935019. 3

19088935020. 4



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