

National Testing Agency

Question Paper Name :	AGRONOMY PG 17th September 2021 Shift1
Subject Name :	AGRONOMY PG
Creation Date :	2021-09-17 15:50:08
Duration :	120
Total Marks :	480
Display Marks:	Yes

AGRONOMY PG

Group Number :	1
Group Id :	19088957
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

AGRONOMY PG -1

Section Id :	190889131
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	120
Number of Questions to be attempted :	120
Section Marks :	480
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889171
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1908896142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In C4 plants, Calvin cycle works at

1. Stroma of bundle sheath chloroplasts
2. Grana of bundle sheath chloroplasts
3. Grana of mesophyll chloroplasts
4. Stroma of mesophyll chloroplasts

Options :

19088924461. 1

19088924462. 2

19088924463. 3

19088924464. 4

Question Number : 2 Question Id : 1908896143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The most widely accepted theory for ascent of sap in trees is

1. Capillarity
2. Role of atmospheric pressure
3. Pulsating action of living cell
4. Transpiration pull and cohesion theory of Dixon and Jolly

19088924465. 1

19088924466. 2

19088924467. 3

19088924468. 4

Question Number : 3 Question Id : 1908896144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Maximum solar energy is trapped by

1. Planting trees
2. Cultivating crops
3. Growing algae in tanks
4. Growing grasses

Options :

19088924469. 1

19088924470. 2

19088924471. 3

19088924472. 4

Question Number : 4 Question Id : 1908896145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Magnesium is a component of

1. Chlorophyll
2. Cytochrome
3. Haemoglobin
4. Haemocyanin

Options :

19088924473. 1

19088924474. 2

19088924475. 3

19088924476. 4

Question Number : 5 Question Id : 1908896146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Enzyme used by the biscuit manufacturers to lower the protein level of flour is

1. Amylase
2. Protease
3. Cellulase
4. Xylanase

Options :

19088924477. 1

19088924478. 2

19088924479. 3

19088924480. 4

Question Number : 6 Question Id : 1908896147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Klinostat is employed in the study of

1. Osmosis
2. Growth movements
3. Photosynthesis
4. Respiration

Options :

19088924481. 1

19088924482. 2

19088924483. 3

19088924484. 4

Question Number : 7 Question Id : 1908896148 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An example of the simplest carbohydrate

1. Glucose
2. Sucrose
3. Dihydroxyacetone
4. Glyceraldehyde

Options :

19088924485. 1

19088924486. 2

19088924487. 3

19088924488. 4

Question Number : 8 Question Id : 1908896149 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If the water potential of pure water is equal to zero, what does it mean?

- A. Water with solutes
- B. Water contains solutes and gases
- C. Water without solutes
- D. Water with organic sugars
- E. Water with inorganic sugars

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

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

Options :

19088924489. 1

19088924490. 2

19088924491. 3

19088924492. 4

Question Number : 9 Question Id : 1908896150 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
Equipment	Parameter
A. IRGA	I. Transpiration rate
B. Porometer	II. Water potential
C. Osmometer	III. Photosynthetic rate
D. Pressure bomb system	IV. Osmotic potential

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

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

Options :

19088924493. 1

19088924494. 2

19088924495. 3

19088924496. 4

Question Number : 10 Question Id : 1908896151 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the classified form of conjugated proteins?

1. Lipoproteins
2. Glycoproteins
3. Metalloproteins
4. Complete proteins

Options :

- 19088924497. 1
- 19088924498. 2
- 19088924499. 3
- 19088924500. 4

Question Number : 11 Question Id : 1908896152 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: During transpiration process most of the water loss occurs through stomata.

Statement II: Respiration required CO₂ to provide energy during growth and development.

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 :

- 19088924501. 1
- 19088924502. 2
- 19088924503. 3
- 19088924504. 4

Question Number : 12 Question Id : 1908896153 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Unfolding of a protein can be termed as

1. Renaturation
2. Denaturation
3. Oxidation
4. Reduction

Options :

19088924505. 1

19088924506. 2

19088924507. 3

19088924508. 4

Question Number : 13 Question Id : 1908896154 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The degree of unsaturation of lipids can be measured as

1. Iodine number
2. Saponification number
3. Reichert Meissel number
4. Polenske number

Options :

19088924509. 1

19088924510. 2

19088924511. 3

19088924512. 4

Question Number : 14 Question Id : 1908896155 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the correct nucleotide pair in RNA

1. Adenine-Guanine
2. Adenine-Thiamine
3. Adenine-Uracil
4. Adenine-Cytosine

Options :

19088924513. 1

19088924514. 2

19088924515. 3

19088924516. 4

Question Number : 15 Question Id : 1908896156 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A : Median is the selection of central value, located in the middle of the series when all observations are arranged in ascending or descending order of magnitude but the use of median is not so popular.

Reason R : Median does not possess any mathematical properties.

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

19088924517. 1

19088924518. 2

19088924519. 3

19088924520. 4

Question Number : 16 Question Id : 1908896157 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Following are the statements pertaining to a strip-plot-design

- A. Vertical strip-plot and horizontal strip-plot are never perpendicular to each other.
- B. Precision associated with vertical factor is sacrificed to improve the precision of horizontal factor.
- C. The intersection plot is smallest in size.
- D. There is no relationship between vertical plot and horizontal plot with respect to their sizes.
- E. Precision of intersection effect is lower than main effects of vertical and horizontal factors.

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

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

Options :

19088924521. 1

19088924522. 2

19088924523. 3

19088924524. 4

Question Number : 17 Question Id : 1908896158 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The millenium ecosystem assessment (MEA) was launched in the year

- A. 2001 with support from United Nations
- B. 2001 with support from Australia
- C. 2001 with support from Nepal
- D. 2001 with support from Japan
- E. 2001 with support from Japan and India

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

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

Options :

19088924525. 1

19088924526. 2

19088924527. 3

19088924528. 4

Question Number : 18 Question Id : 1908896159 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Dominant clay mineral present in red soil is

- 1. Montmorillonite
- 2. Kaolinite
- 3. Illite
- 4. Chlorite

Options :

19088924529. 1

19088924530. 2

19088924531. 3

19088924532. 4

Question Number : 19 Question Id : 1908896160 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- A. Clay content of black soils ranges from 30–80% .
- B. Black soils are developed on basalt or alluvium derived basaltic rock.
- C. Black soils exhibit eluviation and/or illuviation process.
- D. Black soils have high bulk density.

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

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

Options :

19088924533. 1

19088924534. 2

19088924535. 3

19088924536. 4

Question Number : 20 Question Id : 1908896161 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Recently developed mineral soils with no diagnostic horizon, low degree of soil development due to less time, occurs in all states of India is called

- 1. Inceptisols
- 2. Alfisols
- 3. Entisols
- 4. Histosols

Options :

19088924537. 1

19088924538. 2

Question Number : 21 Question Id : 1908896162 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
Parameters	Unit
A. Relative humidity	I. Degree centigrade
B. Temperature	II. Km per hour
C. Wind speed	III. Octa
D. Cloud cover	IV. Percentage

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

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

Options :

19088924541. 1

19088924542. 2

19088924543. 3

19088924544. 4

Question Number : 22 Question Id : 1908896163 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The geostationary satellite appears stationary to earth and can view the same area on the earth continuously.

Reason R: The geostationary satellite is orbiting in the polar plane of earth at 36000 km above the earth.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

19088924545. 1

19088924546. 2

19088924547. 3

19088924548. 4

Question Number : 23 Question Id : 1908896164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Minimum, optimum and maximum temperature for germination of rice crop are 10-12°C, 30-32°C and 36-38°C, respectively.

Statement II: Minimum, optimum and maximum temperature for germination of wheat crop are 3.0-4.5°C, 20-25°C and 30-40°C, respectively.

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

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

Options :

- 19088924549. 1
- 19088924550. 2
- 19088924551. 3
- 19088924552. 4

Question Number : 24 Question Id : 1908896165 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How much photoperiod (hours) is required by long day plants?

- 1. <10 hours
- 2. >14 hours
- 3. >18 hours
- 4. >20 hours

Options :

- 19088924553. 1
- 19088924554. 2
- 19088924555. 3
- 19088924556. 4

Question Number : 25 Question Id : 1908896166 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How many Agro-ecological regions are there in India according to ICAR?

- 1. 8
- 2. 15
- 3. 20
- 4. 36

Options :

- 19088924557. 1
- 19088924558. 2

19088924559. 3

19088924560. 4

Question Number : 26 Question Id : 1908896167 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The sun behaves as a black body.

Statement II: Sun absorbs both all energy received and in turn radiates energy at the maximum rate possible for a given temperature.

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

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

Options :

19088924561. 1

19088924562. 2

19088924563. 3

19088924564. 4

Question Number : 27 Question Id : 1908896168 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The greenhouse effect is the retention of heat in the lower atmosphere due to absorption and re-radiation by clouds and certain gases.

Statement II: The anthropogenic greenhouse gases effect is the result of the accumulation of trace gases in the air from human activities.

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

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

Options :

19088924565. 1

19088924566. 2

19088924567. 3

19088924568. 4

Question Number : 28 Question Id : 1908896169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Synoptic weather forecasts are popular all over the World, because complex atmospheric equations can be understood through numerical charts.

Statement II: In statistical weather forecast approach, a forecast tries to correlate one weather element with another.

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

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

Options :

19088924569. 1

19088924570. 2

19088924571. 3

19088924572. 4

Question Number : 29 Question Id : 1908896170 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Where is the coldest region of the atmosphere?

1. Tropopause
2. Stratopause
3. Mesopause
4. Troposphere

Options :

19088924573. 1

19088924574. 2

19088924575. 3

19088924576. 4

Question Number : 30 Question Id : 1908896171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Nitrogen concentration in the atmosphere

1. 78%
2. 50%
3. 20%
4. 55%

Options :

19088924577. 1

19088924578. 2

19088924579. 3

19088924580. 4

Question Number : 31 Question Id : 1908896172 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

By which process relative humidity of a parcel of air can be increased?

- A. Adding dry air from outside
- B. Adding moisture from outside
- C. Decreasing its radiation
- D. Increasing wind speed
- E. Increasing temperature

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

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

Options :

19088924581. 1

19088924582. 2

19088924583. 3

19088924584. 4

Question Number : 32 Question Id : 1908896173 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

RGR is equal to

- 1. NAR/LAR
- 2. $NAR+LAR$
- 3. $(NAR+LAR)/NAR$
- 4. $NAR \times LAR$

Options :

19088924585. 1

19088924586. 2

19088924587. 3

19088924588. 4

Question Number : 33 Question Id : 1908896174 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

For a field experiment conducted in RBD with 4 replications and 6 treatments, compute standard error of mean, if error sum of squares is 120.

1. 1.73
2. 2.23
3. 2.80
4. 1.41

Options :

19088924589. 1

19088924590. 2

19088924591. 3

19088924592. 4

Question Number : 34 Question Id : 1908896175 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Optical sensor used for real-time precision of Nitrogen management in agricultural crops is

1. Leaf colour chart
2. Green Seeker
3. Ceptometer
4. Infrared Gas Analyser

Options :

19088924593. 1

19088924594. 2

19088924595. 3

19088924596. 4

Question Number : 35 Question Id : 1908896176 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: India is a country that extends from South to North for about 3000 km between the longitude of $8^{\circ}4' N$ and $37^{\circ}6' N$.

Statement II: India extends from East to West for about 3200 km between the longitude $68^{\circ} 9' E$ and $92^{\circ}25' E$.

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 :

19088924597. 1

19088924598. 2

19088924599. 3

19088924600. 4

Question Number : 36 Question Id : 1908896177 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Sowing depths for maize and semi dwarf wheat seeds are

1. 3-5 cm and 5-6 cm
2. 2-3 cm and 4-5 cm
3. 9-10 cm and 7-9 cm
4. 2-4 cm and 4-8 cm

Options :

19088924601. 1

19088924602. 2

19088924603. 3

19088924604. 4

Question Number : 37 Question Id : 1908896178 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Domestication of sheep was started during

1. 7700 BC
2. 7500 BC
3. 6000 BC
4. 4400 BC

Options :

19088924605. 1

19088924606. 2

19088924607. 3

19088924608. 4

Question Number : 38 Question Id : 1908896179 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following pairs is not the basic race of sorghum?

1. Bicolor and Kafir
2. Durra and Bicolor
3. Guinea and Durra
4. Gymnotheria and Heteorostachy

Options :

19088924609. 1

19088924610. 2

19088924611. 3

19088924612. 4

Question Number : 39 Question Id : 1908896180 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Harvesting time of *Boro* and *Aus* rice is carried out during

1. *Rabi* and *kharif*
2. *Kharif* and *kharif*
3. Summer and *rabi*
4. Summer and *kharif*

Options :

19088924613. 1

19088924614. 2

19088924615. 3

19088924616. 4

Question Number : 40 Question Id : 1908896181 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
Crops	Varieties
A. Chickpea	I. PU-31
B. Lentil	II. L-4147
C. Urd bean	III. GNG-469
D. Moong bean	IV. IPM 02-3

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

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

Options :

19088924617. 1

19088924618. 2

19088924620. 4

Question Number : 41 Question Id : 1908896182 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The edible oil with its quick drying property is used for preparation of paints, furnishes and printing ink of which of the following crops.

1. Linseed
2. Chickpea
3. Mustard
4. Safflower

Options :

19088924621. 1

19088924622. 2

19088924623. 3

19088924624. 4

Question Number : 42 Question Id : 1908896183 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Scientific name of green gram is:

1. *Vigna radiata*
2. *Vigna mungo*
3. *Vigna sinensis*
4. *Glycine max*

Options :

19088924625. 1

19088924626. 2

19088924627. 3

19088924628. 4

Question Number : 43 Question Id : 1908896184 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Macrosperma and microsperma are the major groups of following crops

1. Lentil
2. Wheat
3. Chickpea
4. Fieldpea

Options :

19088924629. 1

19088924630. 2

19088924631. 3

19088924632. 4

Question Number : 44 Question Id : 1908896185 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Drug used for the cure of constipation and dysentery is originated from which of the following crops

1. *Mentha arvensis*
2. *Cymbopogon martini*
3. *Plantago ovata*
4. *Cymbopogon flexuosus*

Options :

19088924633. 1

19088924634. 2

19088924635. 3

19088924636. 4

Question Number : 45 Question Id : 1908896186 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The main aim of topping and desuckering operations is to divert the energy and nutrients of the plants from flower head to leaves.

Reason R: These activities are done to influence the yield and quality of tobacco.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

19088924637. 1

19088924638. 2

19088924639. 3

19088924640. 4

Question Number : 46 Question Id : 1908896187 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

- 19088924641. 1
- 19088924642. 2
- 19088924643. 3
- 19088924644. 4

Question Number : 47 Question Id : 1908896188 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Earthing-up is needed in sugarcane under which of the following planting systems.

- 1. Furrow planting
- 2. Trench planting
- 3. Flat bed planting
- 4. Raised bed planting

Options :

- 19088924645. 1
- 19088924646. 2
- 19088924647. 3
- 19088924648. 4

Question Number : 48 Question Id : 1908896189 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Husk as drug is the economic part of which of the following plants

- 1. Mint
- 2. Citronella
- 3. Isabgol
- 4. Palmarosa

Options :

- 19088924649. 1
- 19088924650. 2

19088924651. 3

19088924652. 4

Question Number : 49 Question Id : 1908896190 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Quantity of seed required for sowing direct-seeded rice in a 10,000 square metre area at a spacing of 20 cm × 5 cm, if 1000 grain weight is 20 g and germination and purity is 90% each.

1. 20.0 kg
2. 24.7 kg
3. 22.2 kg
4. 50.0 kg

Options :

19088924653. 1

19088924654. 2

19088924655. 3

19088924656. 4

Question Number : 50 Question Id : 1908896191 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The amount of mixed fertilizers grade (12:32:16), urea and MOP required to supply 100 kg N, 50 kg P₂O₅ and 50 kg K₂O/ ha in rice

1. 50 kg (fertilizers grade): 90 kg (Urea): 22 (MOP)
2. 78 kg (fertilizers grade): 60 kg (Urea): 32 (MOP)
3. 156 kg (fertilizers grade): 177 kg (Urea): 42 (MOP)
4. 204 kg (fertilizers grade): 240 kg (Urea): 54 (MOP)

Options :

19088924657. 1

19088924658. 2

19088924659. 3

Question Number : 51 Question Id : 1908896192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A formulation of a herbicide generally not diluted and supplied ready to use is called

1. WP
2. ULV
3. WDG
4. DF

Options :

19088924661. 1

19088924662. 2

19088924663. 3

19088924664. 4

Question Number : 52 Question Id : 1908896193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Inter-culture with bullocks or tractor is mostly performed in widely row sown crops. A solid (broadcast) crop where it is usually performed is

1. Direct seeded rice
2. Ragi
3. Sorghum
4. Wheat

Options :

19088924665. 1

19088924666. 2

19088924667. 3

19088924668. 4

Question Number : 53 Question Id : 1908896194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A commercial bio-herbicide for the control of *Sorghum halepense*

1. Devine
2. Bipolaris
3. Biolophos
4. Lubao

Options :

19088924669. 1

19088924670. 2

19088924671. 3

19088924672. 4

Question Number : 54 Question Id : 1908896195 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A Xerophytic weed

1. *Pluchea lanceolata*
2. *Phalaris minor*
3. *Typha dephantine*
4. *Cyperus iria*

Options :

19088924673. 1

19088924674. 2

19088924675. 3

19088924676. 4

Question Number : 55 Question Id : 1908896196 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Match the weed species with their seed production potential

List I	List II
Weed species	Seeds/plant
A. Orobancha	I. 500
B. <i>Avena ludoviciana</i>	II. 50
C. Striga	III. 5,00,000
D. <i>Veronica hederifolia</i>	IV. 50,000

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

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

Options :

19088924677. 1

19088924678. 2

19088924679. 3

19088924680. 4

Question Number : 56 Question Id : 1908896197 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The followings are the practices in stale seed bed

- A. Irrigation of the seed bed
- B. Cultivation, leveling and seed bed preparation
- C. Sowing of crop seed
- D. Ploughing
- E. Spray of glyphosate or paraquat

Choose the *correct* answer from the options given below

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

Options :

19088924681. 1

19088924682. 2

19088924683. 3

19088924684. 4

Question Number : 57 Question Id : 1908896198 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Due to lack of mobility the competition between crop and weeds is active being visible in the beginning

Statement II: A good competitor could be the species with least resource requirement

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

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

Options :

19088924685. 1

19088924686. 2

19088924687. 3

19088924688. 4

Question Number : 58 Question Id : 1908896199 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The main objective of integrated weed management is

1. Near complete elimination of weeds with high crop yield
2. Eradicate especially perennial weeds from crops
3. Maintain weeds below the threshold level
4. To achieve high yield and profits

Options :

19088924689. 1

19088924690. 2

19088924691. 3

19088924692. 4

Question Number : 59 Question Id : 1908896200 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Tembotrione has been registered in India for its use in

1. Sorghum
2. Maize
3. Pearlmillet
4. Soybean

Options :

19088924693. 1

19088924694. 2

19088924695. 3

Question Number : 60 Question Id : 1908896201 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

Match the mode of action in List I with the herbicides in List II

List I	List II
Mode of action	Herbicide
A. Cell division disruption	I. Fluazifop-p-butyl
B. ALS inhibition	II. Glyphosate
C. ACCase inhibition	III. Dinitroaniline
D. EPSP synthase	IV. Sulfonyl ureas

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

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

Options :

19088924697. 1

19088924698. 2

19088924699. 3

19088924700. 4

Question Number : 61 Question Id : 1908896202 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What will be the weed control efficiency (%), if the number of weeds in clodinafop treated plot is $190/\text{m}^2$ and that in a control plot is $361/\text{m}^2$?

1. 33.4
2. 43.4
3. 47.3
4. 57.3

Options :

19088924701. 1

19088924702. 2

19088924703. 3

19088924704. 4

Question Number : 62 Question Id : 1908896203 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

Match the weed in List I with their bio-control agent in List II

List I	List II
Weed	Bio-control agent
A. Orobanche	I. <i>Cassia tora</i>
B. Parthenium	II. <i>Teleonemia scrupulosa</i>
C. Lantana camara	III. <i>Colletotrichum gloeosporides</i>
D. Cuscuta	IV. <i>Phytomyza</i>

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

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

Options :

19088924705. 1

19088924706. 2

19088924707. 3

Question Number : 63 Question Id : 1908896204 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: In case of pre-emergence herbicides less droplet size is effective and for post-emergence herbicides bigger droplet size is desirable.

Statement II: More the size of droplet, less the chance of herbicide drift and less herbicide activity.

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

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

Options :

19088924709. 1

19088924710. 2

19088924711. 3

19088924712. 4

Question Number : 64 Question Id : 1908896205 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A phenomenon in degradation process wherein an intermediate product of herbicides proves more phytotoxic than the parent compound

1. Reverse metabolism
2. Conjugation
3. Metabolism
4. Coupling

Options :

19088924713. 1

19088924714. 2

19088924715. 3

19088924716. 4

Question Number : 65 Question Id : 1908896206 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Match the herbicides in List I with their rate of application in List II

List I	List II
Herbicide	Rate of application
A. Metolachlor	I. 150-200 g/ha
B. Tembotrione	II. 20 g/ha
C. Pyrazosulfuron-ethyl	III. 1500 g/ha
D. Oxyfluorfen	IV. 120 g/ha

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 - III, B - II, C- IV, D - I

Options :

19088924717. 1

19088924718. 2

19088924719. 3

19088924720. 4

Question Number : 66 Question Id : 1908896207 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Find out the amount of LAUDIS 34.4% SC for 6000 m² maize plot if the rate of tembotrione application

1. 70 g
2. 140 g
3. 210 g
4. 280 g

Options :

19088924721. 1

19088924722. 2

19088924723. 3

19088924724. 4

Question Number : 67 Question Id : 1908896208 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: C3 weeds such as *Avena fatua*, *Phalaris minor* and *Chenopodium album* are generally more competitive than C4 weeds especially at higher temperature conditions.

Statement II: In C4 weeds photosynthesis occurs via the Calvin – Benson Cycle and the first stable product is phosphoglyceric acid.

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

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

Options :

19088924725. 1

19088924726. 2

19088924727. 3

19088924728. 4

Question Number : 68 Question Id : 1908896209 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The amount of basalin 45 EC for a plot of $50\text{ m} \times 40\text{ m}$ at recommended rate of fluchloralin at 0.75 kg/ha is

1. 0.111 kg
2. 0.222 kg
3. 0.333 kg
4. 0.444 kg

Options :

19088924729. 1

19088924730. 2

19088924731. 3

19088924732. 4

Question Number : 69 Question Id : 1908896210 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Volume of water required to spray herbicide in 2 ha land, if 2 litre water is used for a swath of 1.4 m width and 50 m length

1. 441.4 litre
2. 571.4 litre
3. 631.4 litre
4. 771.4 litre

Options :

19088924733. 1

19088924734. 2

19088924735. 3

19088924736. 4

Question Number : 70 Question Id : 1908896211 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Match the crop in **List I** with the registered herbicide in **List II**

List I	List II
Crop	Herbicide
A. Soybean	I. Anilophos
B. Maize	II. Glyphosate
C. Rice	III. Tembotrione
D. Tea	IV. Quazalofop-ethyl

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

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

Options :

19088924737. 1

19088924738. 2

19088924739. 3

19088924740. 4

Question Number : 71 Question Id : 1908896212 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A : The first shorter cycle is from precipitation into the soil and then as evaporation and transpiration back to the atmosphere is called blue water.

Reason R : The second cycle or green water follows longer path from precipitation through soil moisture, ground water and rivers to the soil.

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

19088924741. 1

19088924742. 2

19088924743. 3

19088924744. 4

Question Number : 72 Question Id : 1908896213 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A : Temperature above 25°C reduces the test-weight of wheat grain.

Reason R : Reduction in test-weight of wheat grain is due to hastening in maturity.

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

19088924745. 1

19088924746. 2

19088924747. 3

19088924748. 4

Question Number : 73 Question Id : 1908896214 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
Irrigation project	State
A. Koyna	I. Himachal Pradesh
B. Idukki	II. Maharashtra
C. Govind Sagar	III. Kerala
D. Hirakud	IV. Odisha

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

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

Options :

19088924749. 1

19088924750. 2

19088924751. 3

19088924752. 4

Question Number : 74 Question Id : 1908896215 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The maximum permissible slope per cent for furrow irrigation (short, near horizontal furrows) is

1. 0.1 Per cent
2. 0.5 Per cent
3. 1.0 Per cent
4. 1.5 Per cent

Options :

19088924753. 1

19088924754. 2

19088924755. 3

19088924756. 4

Question Number : 75 Question Id : 1908896216 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: A surface irrigation event is composed of four phases namely, advance phase, storage phase, depletion phase and recession phase.

Statement II: In recession phase of surface irrigation, the depth of water applied to any point in the field is a function of opportunity time, length of time for which water is present on soil surface.

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

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

Options :

19088924757. 1

19088924758. 2

19088924759. 3

19088924760. 4

Question Number : 76 Question Id : 1908896217 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the efficiency (%) of sprinkler irrigation?

1. 60 - 65
2. 65 - 70
3. 70 - 85
4. 85 - 95

Options :

19088924761. 1
19088924762. 2
19088924763. 3
19088924764. 4

Question Number : 77 Question Id : 1908896218 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

How much area can be irrigated with a flow rate of 30 liters per second for 10 hours a day when irrigation requirement of the 100 days duration crop is 50 cm?

1. 60.0 ha
2. 30.0 ha
3. 21.6 ha
4. 16.6 ha

Options :

19088924765. 1
19088924766. 2
19088924767. 3
19088924768. 4

Question Number : 78 Question Id : 1908896219 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Device used for measuring water flow in pipes

1. Venturi meter
2. Weir
3. Parshall flume
4. Cutthroat flume

Options :

19088924769. 1

19088924770. 2

19088924771. 3

19088924772. 4

Question Number : 79 Question Id : 1908896220 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which stages are the most sensitive to water deficit in groundnut?

1. Vegetative and flowering
2. Flowering and pegging
3. Flowering and pod formation
4. Vegetative and pod development

Options :

19088924773. 1

19088924774. 2

19088924775. 3

19088924776. 4

Question Number : 80 Question Id : 1908896221 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ratio of average depth of water stored in root zone soil depth during irrigation to the water diverted from the reservoir is known as

1. Operational efficiency
2. Project efficiency
3. Water convergence efficiency
4. Reservoir detention factor

Options :

19088924777. 1

19088924778. 2

19088924779. 3

19088924780. 4

Question Number : 81 Question Id : 1908896222 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The correct order of crops with respect to their water requirement

1. Rice > Cotton > Maize > Wheat > Pea
2. Rice > Maize > Cotton > Pea > Wheat
3. Rice > Pea > Maize > Cotton > Wheat
4. Rice > Cotton > Maize > Pea > Wheat

Options :

19088924781. 1

19088924782. 2

19088924783. 3

19088924784. 4

Question Number : 82 Question Id : 1908896223 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Water requirement satisfaction index (WRSI) can be computed using the information on seasonal actual evapotranspiration (AET) and seasonal crop water requirement.

1. $WRSI = AET/WR \times 100$
2. $WRSI = (AET \times WR)/100$
3. $WRSI = WR/AET \times 100$
4. $WRSI = (WR - AET)/WR \times 100$

Options :

19088924785. 1

19088924786. 2

19088924787. 3

19088924788. 4

Question Number : 83 Question Id : 1908896224 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

The crop coefficient (Kc) for major crops at harvest

List I	List II
Crop	Kc value
A. Maize	I. 0.50 – 0.60
B. Sorghum	II. 0.55 – 0.60
C. Soybean	III. 0.65 – 0.70
D. Cotton	IV. 0.40 – 0.50

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

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

Options :

19088924789. 1

19088924790. 2

19088924791. 3

Question Number : 84 Question Id : 1908896225 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Actual evapotranspiration equals maximum evaporation (ET₀) when

- A. Soil mixture not constraint
- B. Other factors not constraint
- C. Both A and B
- D. A but not B

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

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

Options :

19088924793. 1

19088924794. 2

19088924795. 3

19088924796. 4

Question Number : 85 Question Id : 1908896226 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A wheat crop grown on two hectare area produced 10 ton grain and required 5 irrigations of 6 cm each, find out its field water use efficiency

- 1. 33.33 kg/ha-mm
- 2. 16.67 kg/ha-mm
- 3. 3.33 kg/ha-mm
- 4. 1.67 kg/ha-mm

Options :

19088924797. 1

19088924798. 2

19088924799. 3

19088924800. 4

Question Number : 86 Question Id : 1908896227 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Essentiality of zinc in plant was discovered in 1926 by

1. D.I. Arnon and P.R. Stout
2. A.L. Sommer and C.P. Lipman
3. Sprengel
4. K. Warington

Options :

19088924801. 1

19088924802. 2

19088924803. 3

19088924804. 4

Question Number : 87 Question Id : 1908896228 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Brays No. 1 reagent consists of mixture of

1. $0.03\text{ N NH}_4\text{F} + 0.025\text{ N HCl}$
2. $0.3\text{ N NH}_4\text{F} + 0.025\text{ N HCl}$
3. $0.03\text{ N NH}_4\text{F} + 0.25\text{ N HCl}$
4. $0.3\text{ N NH}_4\text{F} + 0.25\text{ N HCl}$

Options :

19088924805. 1

19088924806. 2

19088924807. 3

Question Number : 88 Question Id : 1908896229 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The primary raw material used for commercial manufacturing of Muriate of Potash fertilizer

1. Sylvite
2. Sylvinite
3. Langbeinite
4. Schoenite

Options :

19088924809. 1

19088924810. 2

19088924811. 3

19088924812. 4

Question Number : 89 Question Id : 1908896230 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Mitscherlich's equation is expressed by the equation

1. $\log (A+Y) = \log A - Cb$
2. $\log (A-Y) = \log A - Cb$
3. $\log (A-Y) = \log A + Cb$
4. $\log (A-Y) = \log A - Cb^2$

Options :

19088924813. 1

19088924814. 2

19088924815. 3

19088924816. 4

Question Number : 90 Question Id : 1908896231 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Among the followings, nitrification inhibitor is

1. Encapsulated calcium carbide
2. Lac coated urea
3. Urea formaldehyde
4. Sulphur coated urea

Options :

19088924817. 1

19088924818. 2

19088924819. 3

19088924820. 4

Question Number : 91 Question Id : 1908896232 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Nickel is essential for the function of urease enzyme.

Reason R: Nickel helps in breaking down urea into NH_3 and CO_2 .

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

19088924821. 1

19088924822. 2

19088924823. 3

19088924824. 4

Question Number : 92 Question Id : 1908896233 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: The synergistic positive effects of integrated nutrient management (INM) are due to better physical properties of soil, higher root growth and supply of secondary and micronutrients.

Reason R: Site specific nutrient management (SSNM) provides scientific principles for optimally supporting crops with nutrients as and when needed for specific fields in a particular cropping season and cropping system.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

19088924825. 1

19088924826. 2

19088924827. 3

19088924828. 4

Question Number : 93 Question Id : 1908896234 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Integrated use of phosphatic fertilizers and organic manure/crop residues increases P use efficiency by reducing P-fixation in soils.

Reason R: Decrease in P-fixation in presence of organic matter in soils may be ascribed by formation of phosphohumic complexes that are easily assimilated by plants and formation of coating on the surface of sesquioxide particles.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options :

19088924829. 1

19088924830. 2

19088924831. 3

19088924832. 4

Question Number : 94 Question Id : 1908896235 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Acid sulphate soil is formed due to formation of Jarosite.

Statement II: Acid sulphate soil is found in Himachal Pradesh.

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 :

19088924833. 1

19088924834. 2

19088924835. 3

19088924836. 4

Question Number : 95 Question Id : 1908896236 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Use efficiency of fertilizer NPK can be improved by following integrated nutrient management (INM).

Statement II: Integrated nutrient management (INM) utilizes the use of organic manure, inorganic fertilizers and biofertilizers.

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 :

19088924837. 1

19088924838. 2

19088924839. 3

19088924840. 4

Question Number : 96 Question Id : 1908896237 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. Sulphur	I. Reddish colour on green leaves or stem appearing on older leaves
B. Phosphorus	II. Chlorosis starting from leaf tips appearing on older leaves
C. Nitrogen	III. Youngest leaf is brownish or dead (e.g. on beet)
D. Boron	IV. Mottled yellow-green leaves with yellowish veins appearing on younger leaves

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

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

Options :

19088924841. 1

19088924842. 2

19088924843. 3

19088924844. 4

Question Number : 97 Question Id : 1908896238 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. Bray	I. Law of diminishing return
B. Mitscherlich	II. Per cent yield concept
C. O.W. Wilcox	III. Nutrient Index
D. Parker	IV. Inverse Nitrogen-Yield concept

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

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

19088924845. 1

19088924846. 2

19088924847. 3

19088924848. 4

Question Number : 98 Question Id : 1908896239 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Statements:

A. Magnesium deficiency symptom shows the first appearance of chlorosis mainly between veins (which remain green).

B. Iron deficiency causes interveinal chlorosis which first appears in older leaves with distinct green veins.

C. Manganese deficiency causes brownish black spots in pea and grey speck of oat.

D. Boron deficiency shows brownish or reddish young leaves and growing points of shoot and roots die.

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

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

Options :

19088924849. 1

19088924850. 2

19088924851. 3

19088924852. 4

Question Number : 99 Question Id : 1908896240 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Potassium helps in maintaining cytoplasmic pH between

1. 7 and 8
2. 6 and 7
3. 5 and 6
4. 4 and 5

Options :

19088924853. 1

19088924854. 2

19088924855. 3

19088924856. 4

Question Number : 100 Question Id : 1908896241 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Plants absorb nitrogen from the soil solution as nitrate (NO_3^-) and as ammonium (NH_4^+) ions.

Statement II: The content of N in healthy plants ranges between 1 and 5% depending upon the species or variety.

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 :

19088924857. 1

19088924858. 2

19088924859. 3

19088924860. 4

Question Number : 101 Question Id : 1908896242 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When rainfall is inadequate to meet the evapotranspiration losses, usually occurs in humid region

- A. Invisible drought
- B. Contingent drought
- C. Meteorological drought
- D. Permanent drought

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

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

Options :

19088924861. 1

19088924862. 2

19088924863. 3

19088924864. 4

Question Number : 102 Question Id : 1908896243 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Plants can tolerate drought either by mitigating the actual stress or by showing a high degree of tolerance to stress.

Statement II: Plants tolerate the stress by showing resistance to dehydration and by preventing leaf collapse, permit the plants to maintain a high internal water potential in spite of drought conditions.

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

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

Options :

19088924865. 1

19088924866. 2

19088924867. 3

19088924868. 4

Question Number : 103 Question Id : 1908896244 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
Year	Events
A. 1920	I. Royal Commission on Agriculture
B. 1942	II. Central Soil Conservation Board
C. 1953	III. ICRISAT
D. 1972	IV. Bombay Land Development Act

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

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

19088924869. 1

19088924870. 2

19088924871. 3

19088924872. 4

**Question Number : 104 Question Id : 1908896245 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A : Break of monsoon at critical stages for soil moisture stress leads to reduction in yield.

Reason R : Only when the break of monsoon exceeds 15 days duration or more.

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

19088924873. 1

19088924874. 2

19088924875. 3

19088924876. 4

**Question Number : 105 Question Id : 1908896246 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Under inter-row water harvesting, the furrows of about 30-40 cm with depth of _____ are alternated by ridges of 60-70 cm.

- A. 10 cm
- B. 15 cm
- C. 20 cm
- D. 25 cm

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

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

Options :

- 19088924877. 1
- 19088924878. 2
- 19088924879. 3
- 19088924880. 4

Question Number : 106 Question Id : 1908896247 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II According to De Martonne's classification

List I	List II
Indices	Vegetation condition
A. < 30	I. True desert
B. 20-30	II. Dry steepe
C. 10-20	III. Prairies
D. > 5	IV. Forest vegetation

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

Options :

19088924881. 1

19088924882. 2

19088924883. 3

19088924884. 4

Question Number : 107 Question Id : 1908896248 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is radiation reflecting anti-transparent?

1. CCC-2
2. Kaolin
3. Mobi-leaf
4. Phenyl mercuric acetate

Options :

19088924885. 1

19088924886. 2

19088924887. 3

19088924888. 4

Question Number : 108 Question Id : 1908896249 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Intercropping is possible in regions receiving 600 -750 mm of rainfall and having effective growing season in weeks of

1. 10-15
2. 15-20
3. 20-30
4. 30-40

Options :

19088924889. 1

19088924890. 2

19088924891. 3

19088924892. 4

Question Number : 109 Question Id : 1908896250 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A : In a typical watershed project, development is started at the top of drainage basin and proceeds down the slopes to lowlands

Reason R : Upper reaches in the watershed are occupied mostly by forests which are often degraded and most in need of repair; also treating upper parts of basin reduce runoff and thus protects lower lands.

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

19088924893. 1

19088924894. 2

19088924895. 3

19088924896. 4

Question Number : 110 Question Id : 1908896251 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II IMD uses the aridity index on the basis of $(PE-AE)/PE$ to assess fortnight drought situation over India

List I	List II
Aridity class	Index value
A. Non-arid	I. 26-50
B. Mild	II. >50
C. Moderate	III. 0 or less
D. Severe	IV. 1-25

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

Options :

19088924897. 1

19088924898. 2

19088924899. 3

19088924900. 4

Question Number : 111 Question Id : 1908896252 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

India Meteorological Department has been using long range or seasonal forecast for the SW monsoon rainfall during June – September since

1. 1883
2. 1884
3. 1885
4. 1886

Options :

19088924901. 1

19088924902. 2

19088924903. 3

19088924904. 4

Question Number : 112 Question Id : 1908896253 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Periodically, a phenomenon called as southern oscillation that is a global scale see-saw in surface pressure with center of action near Indonesia – North Australia in one side and South-east Pacific region in the other side occurs and when it occurs the above mentioned normal situation greatly changes.

Statement II: Pressure rises in the Indonesian region and as a consequence the steady Trade wind diminish and may even change direction.

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

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

Options :

19088924905. 1

19088924906. 2

19088924907. 3

19088924908. 4

Question Number : 113 Question Id : 1908896254 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Drought Prone Area Programme (DPAP) was started during

1. 1990
2. 1980
3. 1970
4. 1960

Options :

19088924909. 1

19088924910. 2

19088924911. 3

19088924912. 4

Question Number : 114 Question Id : 1908896255 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The characteristics of saline-alkali soils are

- A. $\text{pH} > 8.5$
- B. $\text{pH} < 8.5$
- C. $\text{EC} > 4 \text{ dS/m}$
- D. $\text{EC} < 4 \text{ dS/m}$
- E. $\text{ESP} > 15$

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

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

Options :

19088924913. 1

19088924915. 3

19088924916. 4

**Question Number : 115 Question Id : 1908896256 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Liming of acid soils with limestone and/or basic slag helps in neutralizing exchangeable aluminium (Al^{3+}) and increasing pH of soils to a desired level.

Over-liming of acid soils has adverse effect on soil nutrient availability, particularly of micronutrients (Zn, Cu, Fe and Mn) and crop growth.

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

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

Options :

19088924917. 1

19088924918. 2

19088924919. 3

19088924920. 4

**Question Number : 116 Question Id : 1908896257 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Sodic or alkali soils can be reclaimed by application of calcium carbonate (CaCO_3).

Reason R: Removal of excess salts to a desired level in the rooting zone is the basic principal of reclamation of saline soils.

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

1. Both **A** and **R** are correct and **R** is not the correct explanation of **A**
2. **A** is correct but **R** is not correct
3. **A** is not correct but **R** is correct
4. Both **A** and **R** are correct and **R** is the correct explanation of **A**

Options :

19088924921. 1

19088924922. 2

19088924923. 3

19088924924. 4

Question Number : 117 Question Id : 1908896258 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When P_i is productivity per unit input of the limited or non-renewable resource, S_i is alteration in soil properties, W_i is change in water resource and quality, C_i modification in climatic factor and t is the time, the index of sustainability (I_s) can be computed as

1. $I_s = (P_i \times S_i \times W_i \times C_i)/t$
2. $I_s = f((P_i \times S_i \times W_i \times C_i)/t)$
3. $I_s = f(P_i + S_i + W_i + C_i) \times t$
4. $I_s = [f(P_i + S_i + W_i + C_i)]/t$

Options :

19088924925. 1

19088924926. 2

19088924927. 3

19088924928. 4

Question Number : 118 Question Id : 1908896259 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In shifting cultivation, the shifting cycle has been shrunk to about 5 years or even below 5 years, mainly due to

1. Increase in soil fertility
2. Decrease in population of tribal farmers practicing shifting cultivation
3. Increase in population of tribal farmers
4. Quality of produce from shifting cultivation is high

Options :

19088924929. 1

19088924930. 2

19088924931. 3

19088924932. 4

Question Number : 119 Question Id : 1908896260 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Distillery effluents also known as spent wash is a nutrient rich material and can be applied

1. Directly to soil only
2. As irrigation water only
3. Directly to soil and as irrigation water
4. Mostly as foliar spray

Options :

19088924933. 1

19088924934. 2

19088924935. 3

19088924936. 4

Question Number : 120 Question Id : 1908896261 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Conservation agriculture is congenial for formation of soil aggregates and humus, leading to improved soil structure, soil porosity and pore size distribution.

Statement II: Adoption of conservation agriculture results in increased crusting and surface sealing and decreased soil water storage capacity.

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

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

Options :

19088924937. 1

19088924938. 2

19088924939. 3

19088924940. 4