

# National Testing Agency

<b>Question Paper Name :</b>	Agronomy 23rd Sep 2020 Shift 2
<b>Subject Name :</b>	AGRONOMY
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## Agronomy

<b>Group Number :</b>	1
<b>Group Id :</b>	71087066
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<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A General Knowledge

<b>Section Id :</b>	710870196
<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>Display Number Panel :</b>	Yes
<b>Group All Questions :</b>	Yes
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	710870196
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 7108707861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

**Options :**

- 71087031441. 1
- 71087031442. 2
- 71087031443. 3
- 71087031444. 4

**Question Number : 2 Question Id : 7108707862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

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

- 1. Only A and B
- 2. Only B and C
- 3. Only C and D
- 4. Only A and C

**Options :**

- 71087031445. 1
- 71087031446. 2
- 71087031447. 3
- 71087031448. 4

**Question Number : 3 Question Id : 7108707863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

**Options :**

- 71087031449. 1



71087031450. 2

71087031451. 3

71087031452. 4

**Question Number : 4 Question Id : 7108707864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

**Options :**

71087031453. 1

71087031454. 2

71087031455. 3

71087031456. 4

**Question Number : 5 Question Id : 7108707865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



Given below are two statements

**Statement A:** MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

**Statement B:** Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

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

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

**Options :**

- 71087031457. 1
- 71087031458. 2
- 71087031459. 3
- 71087031460. 4

**Question Number : 6 Question Id : 7108707866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

**Options :**

- 71087031461. 1
- 71087031462. 2
- 71087031463. 3
- 71087031464. 4

**Question Number : 7 Question Id : 7108707867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

**Options :**

- 71087031465. 1
- 71087031466. 2
- 71087031467. 3
- 71087031468. 4

**Question Number : 8 Question Id : 7108707868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Utter Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

**Options :**

71087031469. 1

71087031470. 2

71087031471. 3

71087031472. 4

**Question Number : 9 Question Id : 7108707869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which type of N-fertilizer is suitable for water-logged soils?

1. Zinc Phosphate
2. Ammonium Sulphate
3. Calcium
4. Potassium Nitrate

**Options :**

71087031473. 1

71087031474. 2

71087031475. 3

71087031476. 4

**Question Number : 10 Question Id : 7108707870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

1. Bauxite deposits
2. Manganese deposits
3. Copper deposits
4. High-grade haematite deposits

**Options :**

71087031477. 1



71087031478. 2

71087031479. 3

71087031480. 4

**Question Number : 11 Question Id : 7108707871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

**Options :**

71087031481. 1

71087031482. 2

71087031483. 3

71087031484. 4

**Question Number : 12 Question Id : 7108707872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

**Options :**

71087031485. 1  
71087031486. 2  
71087031487. 3  
71087031488. 4

**Question Number : 13 Question Id : 7108707873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which one of the following countries was the partner country of 34<sup>th</sup> Surajkund International Crafts Fair held in Haryana?

1. China
2. Nepal
3. Bhutan
4. Uzbekistan

**Options :**

71087031489. 1  
71087031490. 2  
71087031491. 3  
71087031492. 4

**Question Number : 14 Question Id : 7108707874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

1. University of Delhi
2. University of Kolkata
3. University of Mumbai
4. University of Hyderabad

**Options :**

- 71087031493. 1
- 71087031494. 2
- 71087031495. 3
- 71087031496. 4

**Question Number : 15 Question Id : 7108707875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

**Options :**

- 71087031497. 1
- 71087031498. 2
- 71087031499. 3
- 71087031500. 4

**Question Number : 16 Question Id : 7108707876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals



**Options :**

- 71087031501. 1
- 71087031502. 2
- 71087031503. 3
- 71087031504. 4

**Question Number : 17 Question Id : 7108707877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

**Options :**

- 71087031505. 1
- 71087031506. 2
- 71087031507. 3
- 71087031508. 4

**Question Number : 18 Question Id : 7108707878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

**Options :**

- 71087031509. 1
- 71087031510. 2
- 71087031511. 3
- 71087031512. 4

**Question Number : 19 Question Id : 7108707879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

**Options :**

- 71087031513. 1
- 71087031514. 2
- 71087031515. 3
- 71087031516. 4

**Question Number : 20 Question Id : 7108707880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

**Options :**

- 71087031517. 1

71087031518. 2  
71087031519. 3  
71087031520. 4

## Part B Core Natural Resource Management-II

<b>Section Id :</b>	710870197
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<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>Display Number Panel :</b>	Yes
<b>Group All Questions :</b>	Yes
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	710870197
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 7108707881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The most commonly used carrier gas in GC-MS/MS is

1. Hydrogen
2. Nitrogen
3. Helium
4. Oxygen

**Options :**

71087031521. 1  
71087031522. 2



71087031523. 3

71087031524. 4

**Question Number : 22 Question Id : 7108707882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is**

**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Organic compounds used by insects to convey specific chemical messages that modify behaviour or physiology are

1. Semiochemicals
2. Chemosterilant
3. Juvenile Hormone
4. Antibiotics

**Options :**

71087031525. 1

71087031526. 2

71087031527. 3

71087031528. 4

**Question Number : 23 Question Id : 7108707883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is**

**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Carbamate pesticides are developed from which natural lead containing molecule?

1. Rotenone
2. Nicotine
3. Physostigmine
4. Anabasine

**Options :**

71087031529. 1

71087031530. 2

71087031531. 3

71087031532. 4

**Question Number : 24 Question Id : 7108707884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Addition of PBO with the pyrethrum extract is a / an

1. Additive effect
2. Synergistic effect
3. Antagonistic effect
4. Symbiotic effect

**Options :**

- 71087031533. 1
- 71087031534. 2
- 71087031535. 3
- 71087031536. 4

**Question Number : 25 Question Id : 7108707885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

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

List I	List II
A. Insect growth regulator	I. Azadirachtin
B. Insect pheromone	II. Methyl eugenol
C. Insect repellent	III. DEET
D. Insect chitin synthesis inhibitor	IV. Diflubenzuron

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

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

**Options :**

- 71087031537. 1
- 71087031538. 2
- 71087031539. 3
- 71087031540. 4

**Question Number : 26 Question Id : 7108707886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

MRL is the amount of residue that will NOT be a concern to human health. MRL stands for

1. Multiple Residue Limit
2. Minimum Residue Limit
3. Minimum Residual Limit
4. Maximum Residue Limit

**Options :**

- 71087031541. 1
- 71087031542. 2
- 71087031543. 3



71087031544. 4

**Question Number : 27 Question Id : 7108707887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following are NOT true about haemoglobin and leghaemoglobin?

- A. Both are oxygen carriers
- B. Haemoglobin is red in colour but leghaemoglobin is blue in colour
- C. Both are hemoproteins
- D. Haemoglobin has significantly higher oxygen affinity than leghaemoglobin

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

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

**Options :**

- 71087031545. 1
- 71087031546. 2
- 71087031547. 3
- 71087031548. 4

**Question Number : 28 Question Id : 7108707888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

In which year, did the Supreme Court of India ban production, use and sale of Endosulfan, an organochlorine contact pesticide?

1. 2014
2. 2011
3. 1999
4. 2006

**Options :**

71087031549. 1  
71087031550. 2  
71087031551. 3  
71087031552. 4

**Question Number : 29 Question Id : 7108707889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

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

**Assertion A:** Insects develop resistance to natural pesticides more than synthetic pesticides

**Reason R:** Active ingredient of natural pesticides comprises a number of homologous compounds

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 :**

71087031553. 1  
71087031554. 2  
71087031555. 3  
71087031556. 4

**Question Number : 30 Question Id : 7108707890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

2 - PAM is known to be effective as a

1. Synergist
2. Antidote
3. Insect growth regulator
4. Plant growth regulator

**Options :**

71087031557. 1  
71087031558. 2  
71087031559. 3  
71087031560. 4

**Question Number : 31 Question Id : 7108707891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

FSSAI stands for

1. Food Standards and Safety Authority of India
2. Food Safety and Standards Authority of India
3. Food Safety and Sanitary Authority of India
4. Food Sanitary and Safety Authority of India

**Options :**

71087031561. 1  
71087031562. 2



71087031563. 3

71087031564. 4

**Question Number : 32 Question Id : 7108707892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is**

**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Phosphorus-containing pesticides may be analysed with GLC coupled with which detector?

1. ECD
2. RI
3. NPD
4. UV-Vis

**Options :**

71087031565. 1

71087031566. 2

71087031567. 3

71087031568. 4

**Question Number : 33 Question Id : 7108707893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is**

**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

In general, which one of the following is NOT the purpose of pesticide formulation?

1. To facilitate the application in the field
2. To reduce drift hazard
3. To improve bioefficacy
4. To provide stability to the active ingredient

**Options :**

71087031569. 1

71087031570. 2

71087031571. 3

71087031572. 4

**Question Number : 34 Question Id : 7108707894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

World Water Day is celebrated on which day every year?

1. 22 April
2. 22 March
3. 16 October
4. 4 December

**Options :**

71087031573. 1  
71087031574. 2  
71087031575. 3  
71087031576. 4

**Question Number : 35 Question Id : 7108707895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Downward movement of water through saturated or nearly saturated soil in response to gravity is known as

1. Infiltration
2. Seepage
3. Permeability
4. Percolation

**Options :**

71087031577. 1  
71087031578. 2  
71087031579. 3  
71087031580. 4

**Question Number : 36 Question Id : 7108707896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** Consumptive use of water in a crop is the amount of water lost through evaporation, percolation, run-off and seepage

**Statement II:** Irrigation water requirement of crop includes water used in evapotranspiration, special operations and water lost through percolation, run-off and seepage etc

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 :**

- 71087031581. 1
- 71087031582. 2
- 71087031583. 3
- 71087031584. 4

**Question Number : 37 Question Id : 7108707897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



In a sprinkler irrigation system, the required total capacity of the system is  $0.005 \text{ m}^3/\text{s}$ . The total head required is 37 m of water column. Determine the size of a monobloc pumpset. Assume pump and motor efficiency as 70% each.

1. 3.0 h.p
2. 1.0 h.p
3. 7.5 h.p
4. 5.0 h.p

**Options :**

71087031585. 1  
71087031586. 2  
71087031587. 3  
71087031588. 4

**Question Number : 38 Question Id : 7108707898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Central Research Institute for Dryland Agriculture is located at

1. Jodhpur
2. Hyderabad
3. Jaipur
4. Nagpur

**Options :**

71087031589. 1  
71087031590. 2  
71087031591. 3  
71087031592. 4

**Question Number : 39 Question Id : 7108707899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

A rectangular wire mesh box filled with stones is a

1. Chute spillway
2. Gabion
3. Drop spillway
4. Drop inlet spillway

**Options :**

- 71087031593. 1
- 71087031594. 2
- 71087031595. 3
- 71087031596. 4

**Question Number : 40 Question Id : 7108707900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

A hydrograph is a graphical representation of

1. Rainfall and time
2. Total runoff and time
3. Surface runoff and time
4. Base flow and time

**Options :**

- 71087031597. 1
- 71087031598. 2
- 71087031599. 3
- 71087031600. 4

**Question Number : 41 Question Id : 7108707901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

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

**Assertion A:** Gypsum is not considered a liming material for reclamation of acid soils although it contains calcium

**Reason R:** Calcium sulphate dissociates into calcium and sulphate. While the former replaces aluminium in the exchange complex, the latter forms sulphuric acid reacting with soil moisture. Both processes reduce pH.

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 :**

- 71087031601. 1
- 71087031602. 2
- 71087031603. 3
- 71087031604. 4

**Question Number : 42 Question Id : 7108707902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

For the sprinkler head to move freely, it is lubricated with

1. Oil
2. Grease
3. Mineral Oil
4. No lubricant is used

**Options :**

- 71087031605. 1



71087031606. 2

71087031607. 3

71087031608. 4

**Question Number : 43 Question Id : 7108707903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Water Horse Power (WHP) developed by a pump is given as  $WHP = (\text{Discharge} \times \text{Total Head against which pump is working})/75$ . If the head is in meters then discharge in the formula is in

1.  $m^3/s$
2. Litres/s
3.  $cm^3/s$
4.  $m^3/hr$

**Options :**

71087031609. 1

71087031610. 2

71087031611. 3

71087031612. 4

**Question Number : 44 Question Id : 7108707904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Spreading type of varieties in groundnut belong to the sub-species

1. Procumbens
2. Indica
3. Fastigata
4. Javanica

**Options :**

71087031613. 1

71087031614. 2

71087031615. 3

71087031616. 4

**Question Number : 45 Question Id : 7108707905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which one of the following is a condition influencing weed - crop competition?

1. pH
2. Nitrogen
3. CO<sub>2</sub>
4. Space

**Options :**

71087031617. 1

71087031618. 2

71087031619. 3

71087031620. 4

**Question Number : 46 Question Id : 7108707906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

What is the Rate of atrazine (Kg/ha) if 3 Kg is applied in 2 ha area at 50% WP?

1. 0.75
2. 1.50
3. 3.00
4. 2.25

**Options :**

71087031621. 1

71087031622. 2

71087031623. 3

71087031624. 4

**Question Number : 47 Question Id : 7108707907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

A fresh soil sample weighing 100 gm contains 18% soil moisture. Find out the dry weight of the soil.

1. 84.74
2. 90.74
3. 75.74
4. 82.0

**Options :**

- 71087031625. 1
- 71087031626. 2
- 71087031627. 3
- 71087031628. 4

**Question Number : 48 Question Id : 7108707908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which of the following is relatively resistant to low water stress?

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

**Options :**

- 71087031629. 1
- 71087031630. 2
- 71087031631. 3
- 71087031632. 4



**Question Number : 49 Question Id : 7108707909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, as per the Mitscherlich equation

**Statement I:** 1 Baule of N = 1 Baule of  $P_2O_5$  = 1 Baule of  $K_2O$

**Statement II:** Amount of nutrient required to produce 50% of maximum possible yield.

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

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

**Options :**

- 71087031633. 1
- 71087031634. 2
- 71087031635. 3
- 71087031636. 4

**Question Number : 50 Question Id : 7108707910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** In the Mitscherlich equation, the value of C indicates the efficiency factor of input x

**Statement II:** There is an inverse relationship between input and efficiency

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

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

**Options :**

71087031637. 1

71087031638. 2

71087031639. 3

71087031640. 4

**Question Number : 51 Question Id : 7108707911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Cultivation of chickpeas and sarson is believed to have started around

1. 2000 BC
2. 2200 BC
3. 2300 BC
4. 1800 BC

**Options :**

71087031641. 1

71087031642. 2

71087031643. 3

71087031644. 4

**Question Number : 52 Question Id : 7108707912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Match the following problem soil with it's characteristics

List I	List II
Problem soil	Characteristics
A. Saline alkali soil	I. pH > 8.5, ESP > 15%, EC > 4 dsm <sup>-1</sup>
B. Alkali soil	II. pH < 8.5, ESP < 15%, EC > 4 dsm <sup>-1</sup>
C. Saline soil	III. pH > 8.5, ESP > 15%, EC < 4 dsm <sup>-1</sup>
D. Non-saline alkali soil	IV. pH > 8.5, compact and dark coloured soils
E. Degraded alkali soil	V. ESP > 15%

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

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

**Options :**

71087031645. 1

71087031646. 2

71087031647. 3

71087031648. 4

**Question Number : 53 Question Id : 7108707913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



Sea water has salt content within the range

1. 20,000 - 30,000 ppm
2. 30,000 - 40,000 ppm
3. 40,000 - 50,000 ppm
4. 50,000 - 60,000 ppm

**Options :**

- 71087031649. 1
- 71087031650. 2
- 71087031651. 3
- 71087031652. 4

**Question Number : 54 Question Id : 7108707914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

What is the acceptable limit of biuret for most crops?

1. 1.0%
2. 1.5%
3. 2.0%
4. 2.5%

**Options :**

- 71087031653. 1
- 71087031654. 2
- 71087031655. 3
- 71087031656. 4

**Question Number : 55 Question Id : 7108707915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

The principle of allelopathy was first reported by

1. Zimmerman
2. Molisch
3. Jethro Tull
4. Wilcox

**Options :**

- 71087031657. 1
- 71087031658. 2
- 71087031659. 3
- 71087031660. 4

**Question Number : 56 Question Id : 7108707916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The yield obtained from a treated plot is 20 q/ha. The yield obtained from a similar but untreated plot is 10 q/ha. Calculate the weed index (WI)

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

**Options :**

- 71087031661. 1
- 71087031662. 2
- 71087031663. 3
- 71087031664. 4

**Question Number : 57 Question Id : 7108707917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Weeds which mature in few weeks are called as

1. Biennial weeds
2. Annual weeds
3. Ephemerals
4. Peripherals

**Options :**

71087031665. 1  
71087031666. 2  
71087031667. 3  
71087031668. 4

**Question Number : 58 Question Id : 7108707918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Match the name of the weed and the crop in which it occurs

List I	List II
Crop	Weed
A. Rice	I. Dodder
B. Sorghum	II. Phalaris
C. Mango	III. Striga
D. Oats	IV. Echinochloa
E. Citrus	V. Loranthus

Choose the correct answer from the options given below

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

**Options :**



71087031669. 1  
71087031670. 2  
71087031671. 3  
71087031672. 4

**Question Number : 59 Question Id : 7108707919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following States has the highest area under drip irrigation?

1. Maharashtra
2. Rajasthan
3. Karnataka
4. Telangana

**Options :**

71087031673. 1  
71087031674. 2  
71087031675. 3  
71087031676. 4

**Question Number : 60 Question Id : 7108707920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

World Wetlands Day is celebrated on

1. 2<sup>nd</sup> October
2. 12<sup>th</sup> October
3. 2<sup>nd</sup> February
4. 12<sup>th</sup> February

**Options :**

71087031677. 1  
71087031678. 2

71087031679. 3

71087031680. 4

**Question Number : 61 Question Id : 7108707921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Highest proportion of plant tissue is made up of

1. N, P, K
2. C, H, O
3. Ca, Mg, S
4. Zn, Mn, Fe

**Options :**

71087031681. 1

71087031682. 2

71087031683. 3

71087031684. 4

**Question Number : 62 Question Id : 7108707922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Mineralisation is the process of

- A. Conversion from organic form to an inorganic form
- B. Conversion from inorganic to an organic form
- C. Conversion from oxidised form to a reduced form
- D. Conversion from reduced form to an oxidised form.

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

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

**Options :**

- 71087031685. 1
- 71087031686. 2
- 71087031687. 3
- 71087031688. 4

**Question Number : 63 Question Id : 7108707923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



Level terrace or inward sloping is suggested for

A. 6 - 50% slope

B. More than 1000 mm annual rainfall

Choose the correct answer from the options given below

1. A only
2. B only
3. Both A and B
4. Neither A nor B

**Options :**

71087031689. 1

71087031690. 2

71087031691. 3

71087031692. 4

**Question Number : 64 Question Id : 7108707924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

If the natural flow of wind is in the E - W direction, ploughing to prevent soil erosion by wind is suggested to be made in the

1. E - W direction
2. N - S direction
3. Direction of ploughing has no effect
4. Ploughing cannot prevent soil erosion by wind

**Options :**

71087031693. 1

71087031694. 2

71087031695. 3

71087031696. 4

**Question Number : 65 Question Id : 7108707925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

For the design of a gravel pack for the aquifer material, the sieve analysis curve is plotted on a

1. Simple graph paper
2. Semilog paper
3. Log-log paper
4. Combination of semi-log and log log paper

**Options :**

71087031697. 1

71087031698. 2

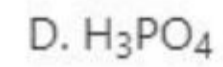
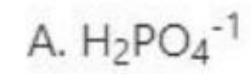
71087031699. 3

71087031700. 4

**Question Number : 66 Question Id : 7108707926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Plant absorbable form of phosphorus in soil are



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

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

**Options :**

71087031701. 1

71087031702. 2

71087031703. 3

71087031704. 4

**Question Number : 67 Question Id : 7108707927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



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

List I	List II
A. Nitrogen	I. Secondary nutrient
B. Calcium	II. Micronutrient
C. Aluminium	III. Macronutrient
D. Zinc	IV. Beneficial nutrient

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

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

**Options :**

71087031705. 1  
71087031706. 2  
71087031707. 3  
71087031708. 4

**Question Number : 68 Question Id : 7108707928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Ratoon stunting disease of sugar cane is caused by

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

**Options :**

71087031709. 1  
71087031710. 2  
71087031711. 3

71087031712. 4

**Question Number : 69 Question Id : 7108707929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Match the scientists with their contribution to plant nutrition

List I	List II
Scientist	Contribution
A. Francis Bacon	I. Water is the sole nutrient of plants
B. Van Helmont	II. Plants contain salt, spirit and earth
C. Robert Boyle	III. Saltpeter ( $\text{KNO}_3$ ) is the principle of vegeta
D. J. R. Glauber	IV. Principle nourishment to plants is water
E. John Woodward	V. Earth is the principle of vegetation

Which of the following match is **correct** ?

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

**Options :**

- 71087031713. 1
- 71087031714. 2
- 71087031715. 3
- 71087031716. 4

**Question Number : 70 Question Id : 7108707930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

A soil considered to be very fertile, when percent base saturation is

1. 50 - 80%
2. 30 - 50%
3. < 30%
4. > 80%

**Options :**

- 71087031717. 1
- 71087031718. 2
- 71087031719. 3
- 71087031720. 4

## Part C Agronomy

<b>Section Id :</b>	710870198
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<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>Display Number Panel :</b>	Yes
<b>Group All Questions :</b>	Yes
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	710870198
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 7108707931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



Out of the total energy received from the Sun what percentage is utilized for photosynthesis?

1. 0.03%
2. 0.01%
3. 0.11%
4. 0.09%

**Options :**

71087031721. 1  
71087031722. 2  
71087031723. 3  
71087031724. 4

**Question Number : 72 Question Id : 7108707932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

What proportion of the Sun's energy output across different wavelengths, actually reaches the Earth's atmosphere?

1. Half a millionth
2. One part of a million
3. Half a billionth
4. One part of a trillion

**Options :**

71087031725. 1  
71087031726. 2  
71087031727. 3  
71087031728. 4

**Question Number : 73 Question Id : 7108707933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Energy flow in an ecosystem is always

1. Cyclic
2. Reversible
3. Unidirectional
4. Multi-directional

**Options :**

71087031729. 1  
71087031730. 2  
71087031731. 3  
71087031732. 4

**Question Number : 74 Question Id : 7108707934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

If a person is walking at  $1.5 \text{ km h}^{-1}$  covering a swath of 0.6 m wide, the time that is taken for spraying to cover one hectare will be

1. 16 h 40 min
2. 15 h 15 min
3. 11 h 11 min
4. 10 h 10 min

**Options :**

71087031733. 1  
71087031734. 2  
71087031735. 3  
71087031736. 4

**Question Number : 75 Question Id : 7108707935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Corn yields are reduced by the alleopathic effect of

1. *Echinochloa crus-galli*
2. *Chenopodium album*
3. *Datura stramonium*
4. *Amaranthus spinosus*

**Options :**

- 71087031737. 1
- 71087031738. 2
- 71087031739. 3
- 71087031740. 4

**Question Number : 76 Question Id : 7108707936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The critical period of crop - weed competition in jute is between

1. 15 and 45 days after sowing
2. 30 and 60 days after sowing
3. 60 and 90 days after sowing
4. 90 and 105 days after sowing

**Options :**

- 71087031741. 1
- 71087031742. 2
- 71087031743. 3
- 71087031744. 4

**Question Number : 77 Question Id : 7108707937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**



Application of Glyphosate to the Roundup Ready cotton cultivars is most effective at

1. Flowering stage
2. Vegetative growth stage
3. Boll formation stage
4. Square stage

**Options :**

- 71087031745. 1
- 71087031746. 2
- 71087031747. 3
- 71087031748. 4

**Question Number : 78 Question Id : 7108707938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Herbicide resistance in weeds is developed by

1. Continuous use of same herbicides
2. Containment of resistant alleles
3. The practice of herbicide rotation
4. The use of herbicide mixtures

**Options :**

- 71087031749. 1
- 71087031750. 2
- 71087031751. 3
- 71087031752. 4

**Question Number : 79 Question Id : 7108707939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

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

List I	List II
A. Submersed weeds	I. Nuphar
B. Emerged weeds	II. Elodea
C. Marginal weeds	III. Lemna
D. Floating weeds	IV. Typha

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

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

**Options :**

- 71087031753. 1
- 71087031754. 2
- 71087031755. 3
- 71087031756. 4

**Question Number : 80 Question Id : 7108707940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which one of these essential elements is most toxic to plants in a soil of pH 5.0?

1. Manganese
2. Phosphorus
3. Molybdenum
4. Boron

**Options :**

- 71087031757. 1
- 71087031758. 2

71087031759. 3

71087031760. 4

**Question Number : 81 Question Id : 7108707941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Under severe deficiency, added nutrients lead to the Steenberg effect. It happens due to

1. Sufficient level of nutrient concentration in plants as a result of rapid plant growth
2. Dilution of nutrient concentration in plants as a result of slow plant growth
3. Dilution of nutrient concentration in plants as a result of rapid plant growth
4. Increase in nutrient concentration in plants as a result of slow plant growth

**Options :**

71087031761. 1

71087031762. 2

71087031763. 3

71087031764. 4

**Question Number : 82 Question Id : 7108707942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



N salts are more detrimental to germination than P salts when placed close to the seed because

- A. N has lower salt index
- B. N has a higher salt index
- C. N increases the osmotic pressure
- D. N decreases osmotic pressure of soil solution
- E. N stabilises the osmotic pressure

Select the most appropriate answer from the options given below

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

**Options :**

- 71087031765. 1
- 71087031766. 2
- 71087031767. 3
- 71087031768. 4

**Question Number : 83 Question Id : 7108707943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following is the property of slow-release N fertilizers?

1. N release is increased but not well controlled
2. N release is reduced but not well controlled
3. Rate and duration of N release is uncontrollable
4. N release is faster and well controlled

**Options :**

- 71087031769. 1
- 71087031770. 2
- 71087031771. 3
- 71087031772. 4

**Question Number : 84 Question Id : 7108707944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Because of higher microbial accumulation and their function, urease activity is the highest

1. Below the rhizosphere
2. Above the rhizosphere
3. In the rhizosphere
4. In the soil away from the from the root zone

**Options :**

- 71087031773. 1
- 71087031774. 2
- 71087031775. 3
- 71087031776. 4

**Question Number : 85 Question Id : 7108707945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Even when urea super granules are placed deep inside the soil at the reduced zone under submerged condition, nitrification inhibitor gives better result in case of rice because

1. Of more microbial concentration
2. Of less microbial concentration
3. Of less O<sub>2</sub> concentration
4. Rice roots are oxidative in nature

**Options :**

- 71087031777. 1
- 71087031778. 2
- 71087031779. 3
- 71087031780. 4

**Question Number : 86 Question Id : 7108707946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Contingent drought occurs in

1. Arid climate
2. Arid and semiarid climate
3. Humid / sub-humid climate
4. Temperate climate

**Options :**

- 71087031781. 1
- 71087031782. 2
- 71087031783. 3
- 71087031784. 4

**Question Number : 87 Question Id : 7108707947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



Which one of the following equations represents moderately dry period in relation to crop growth and water availability?

1.  $P > ET$
2.  $P < ET$
3.  $P = ET/2$  to  $ET/4$
4.  $P = ET/4$  to  $ET/10$

**Options :**

- 71087031785. 1
- 71087031786. 2
- 71087031787. 3
- 71087031788. 4

**Question Number : 88 Question Id : 7108707948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Semiarid region has a growing period of

1. 50 - 75 days
2. 75 - 120 days
3. 120 - 160 days
4. 160 - 200 days

**Options :**

- 71087031789. 1
- 71087031790. 2
- 71087031791. 3
- 71087031792. 4

**Question Number : 89 Question Id : 7108707949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Bench terracing is possible up to what per cent of a slope?

1. 6
2. 10
3. 16
4. 33

**Options :**

- 71087031793. 1
- 71087031794. 2
- 71087031795. 3
- 71087031796. 4

**Question Number : 90 Question Id : 7108707950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Tolerance of the plant to a level of stress at which 5 per cent of cells die, is known as

1. Drought avoidance
2. Drought resistance
3. Drought escaping
4. Drought tolerance

**Options :**

- 71087031797. 1
- 71087031798. 2
- 71087031799. 3
- 71087031800. 4

**Question Number : 91 Question Id : 7108707951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

In the short duration rice varieties

1. The period between germination and the first leaf emergence is called zero leaf stage
2. The first leaf that emerges without any leaf blade exists for only a few days. This is called zero leaf stage
3. The second leaf that emerges without any sheath and remains for a short period is called zero leaf stage
4. The second leaf that emerges without any blade is called zero leaf stage

**Options :**

- 71087031801. 1
- 71087031802. 2
- 71087031803. 3
- 71087031804. 4

**Question Number : 92 Question Id : 7108707952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Maize is mostly a cross-pollinated crop because its inflorescence is protandrous in nature which means

1. Male flower matures earlier
2. Female flower matures earlier
3. Male inflorescence is longer than female inflorescence
4. Tassel does not mature at all

**Options :**

- 71087031805. 1
- 71087031806. 2
- 71087031807. 3
- 71087031808. 4

**Question Number : 93 Question Id : 7108707953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**



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

Holding is a method of managing weed in maize by

1. Irrigating the crop at 20 - 25 days after sowing
2. Ploughing in the standing crop at 20 - 25 days of growth
3. With holding irrigation at 45 - 50 days after sowing
4. Applying Atrazine at 50 days after sowing

**Options :**

- 71087031809. 1
- 71087031810. 2
- 71087031811. 3
- 71087031812. 4

**Question Number : 94 Question Id : 7108707954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Early fruiting, production of more reproductive parts, saving of water and easy pest control in cotton can be obtained by

1. Practicing Ultra Narrow Row (UNR) planting
2. Practicing wider row planting
3. Practicing normal spacing
4. Keeping every alternate row without any plant

**Options :**

- 71087031813. 1
- 71087031814. 2
- 71087031815. 3
- 71087031816. 4

**Question Number : 95 Question Id : 7108707955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Little leaf disease in cotton is caused by

1. Zn deficiency
2. Ca deficiency
3. Mg deficiency
4. B deficiency

**Options :**

- 71087031817. 1
- 71087031818. 2
- 71087031819. 3
- 71087031820. 4

**Question Number : 96 Question Id : 7108707956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

S application in jute

1. Increases fibre strength
2. Decreases fibre strength
3. Increases lusture
4. Increases knots

**Options :**

- 71087031821. 1
- 71087031822. 2
- 71087031823. 3
- 71087031824. 4

**Question Number : 97 Question Id : 7108707957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

The error degree of freedom of an experiment conducted with 6 treatments and 6 replications under RCBD, LSD and CRD will be

1. 25, 20 and 30 respectively
2. 20, 25 and 32 respectively
3. 30, 15 and 20 respectively
4. 22, 30 and 20 respectively

**Options :**

- 71087031825. 1
- 71087031826. 2
- 71087031827. 3
- 71087031828. 4

**Question Number : 98 Question Id : 7108707958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

In a two factor experiment with 3 and 4 levels each, where the emphasis is to be given on the interaction effect, the most suitable design will be

1. RCBD
2. Split plot design
3. Strip plot design
4. Double split plot design

**Options :**

- 71087031829. 1
- 71087031830. 2
- 71087031831. 3
- 71087031832. 4

**Question Number : 99 Question Id : 7108707959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



In a fertility trial with one factor having seven levels where fertility gradient is in two directions of the field, the most suitable design will be

1. RCBD
2. LSD
3. CRD
4. Balance lattice design

**Options :**

- 71087031833. 1
- 71087031834. 2
- 71087031835. 3
- 71087031836. 4

**Question Number : 100 Question Id : 7108707960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

ANOVA was given by

1. Horace Secrist
2. A L Bowley
3. Karl Pearson
4. R A Fisher

**Options :**

- 71087031837. 1
- 71087031838. 2
- 71087031839. 3
- 71087031840. 4

**Question Number : 101 Question Id : 7108707961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

The test between two population variance is done by

1. T - test
2. F - test
3. Z - test
4. Arithmetic mean

**Options :**

- 71087031841. 1
- 71087031842. 2
- 71087031843. 3
- 71087031844. 4

**Question Number : 102 Question Id : 7108707962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

In conservation tillage, what is the minimum percentage of the crop residue that should remain on the surface of the field?

1. 20 %
2. 35 %
3. 30 %
4. 40 %

**Options :**

- 71087031845. 1
- 71087031846. 2
- 71087031847. 3
- 71087031848. 4

**Question Number : 103 Question Id : 7108707963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The country having maximum area under conservation agriculture in the world is

1. USA
2. Brazil
3. Australia
4. India

**Options :**

71087031849. 1  
71087031850. 2  
71087031851. 3  
71087031852. 4

**Question Number : 104 Question Id : 7108707964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Total number of land capability groups is

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

**Options :**

71087031853. 1  
71087031854. 2  
71087031855. 3  
71087031856. 4

**Question Number : 105 Question Id : 7108707965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



The interaction of soil particle with water is called

1. Osmotic potential
2. Gravitational potential
3. Pressure potential
4. Matric potential

**Options :**

- 71087031857. 1
- 71087031858. 2
- 71087031859. 3
- 71087031860. 4

**Question Number : 106 Question Id : 7108707966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Percolation of water under pressure occurs when the tension is

1. < 0.5 atmosphere
2. > 3 atmosphere
3. 1 - 2 atmosphere
4. 2 - 3 atmosphere

**Options :**

- 71087031861. 1
- 71087031862. 2
- 71087031863. 3
- 71087031864. 4

**Question Number : 107 Question Id : 7108707967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

How many main classes of soil water are there?

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

**Options :**

- 71087031865. 1
- 71087031866. 2
- 71087031867. 3
- 71087031868. 4

**Question Number : 108 Question Id : 7108707968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Energy status of water in plant cell is determined by

1. Turgor, imbibitional and osmotic pressure
2. Turgor and imbibitional pressure
3. Turgor and osmotic pressure
4. Imbibitional and osmotic pressure

**Options :**

- 71087031869. 1
- 71087031870. 2
- 71087031871. 3
- 71087031872. 4

**Question Number : 109 Question Id : 7108707969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

The capillary water is held between tensions of

1. 15 atmosphere and  $\frac{1}{3}$  atmosphere
2. 31 atmosphere and  $\frac{1}{3}$  atmosphere
3. 20 and 25 atmosphere
4. 10 and 13 atmosphere

**Options :**

- 71087031873. 1
- 71087031874. 2
- 71087031875. 3
- 71087031876. 4

**Question Number : 110 Question Id : 7108707970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

The moisture content at which the wilting is complete and the plants die is called

1. Wilting point
2. Permanent wilting point
3. Ultimate wilting point
4. Wilting range

**Options :**

- 71087031877. 1
- 71087031878. 2
- 71087031879. 3
- 71087031880. 4

**Question Number : 111 Question Id : 7108707971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



Trickle irrigation is a method in which the rate of water application is

1. Very low without any pressure
2. Very high without any pressure
3. Very low with pressure
4. Very high with pressure

**Options :**

- 71087031881. 1
- 71087031882. 2
- 71087031883. 3
- 71087031884. 4

**Question Number : 112 Question Id : 7108707972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

In case of soil with low water-holding capacity, irrigation water with low salt concentration and sprinkler irrigation being expensive, the most effective method is

1. Drip irrigation
2. Flooding
3. Sub-irrigation
4. Furrow irrigation

**Options :**

- 71087031885. 1
- 71087031886. 2
- 71087031887. 3
- 71087031888. 4

**Question Number : 113 Question Id : 7108707973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

In rainfed areas, conservation of rainwater for its availability in the root zone of maize can be ensured by

1. Open furrows
2. Open ridges
3. Tied - ridges
4. Sub - surface conservation

**Options :**

- 71087031889. 1
- 71087031890. 2
- 71087031891. 3
- 71087031892. 4

**Question Number : 114 Question Id : 7108707974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

If only two irrigations are available, the most essential stages for applying water in wheat (when other conditions remain the same) are

1. CRI + Milking
2. CRI + Late Jointing
3. Late tillering + Flowering
4. Boot leaf + Dough

**Options :**

- 71087031893. 1
- 71087031894. 2
- 71087031895. 3
- 71087031896. 4

**Question Number : 115 Question Id : 7108707975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

A small earth dam constructed to reserve water for a short period to control excessive run-off and soil erosion is called

1. Cofferd dam
2. Retention dam
3. Earth dam
4. Arch dam

**Options :**

- 71087031897. 1
- 71087031898. 2
- 71087031899. 3
- 71087031900. 4

**Question Number : 116 Question Id : 7108707976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Sprinkler irrigation is NOT suitable for

1. Sandy soils with high infiltration rate
2. Heavy clay soils with very low infiltration rate
3. Sandy loam soils
4. Clay loam soils

**Options :**

- 71087031901. 1
- 71087031902. 2
- 71087031903. 3
- 71087031904. 4

**Question Number : 117 Question Id : 7108707977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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



Soil salinity limits plant growth by

1. Water imbalance in the soil
2. Ion imbalance that decreases energy consumption
3. Toxicity from Mn and Mg
4. Toxicity from  $\text{Na}^+$  and  $\text{Cl}^-$

**Options :**

- 71087031905. 1
- 71087031906. 2
- 71087031907. 3
- 71087031908. 4

**Question Number : 118 Question Id : 7108707978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Decomposition of organic residues and root respiration increases  $\text{CO}_2$  in soil air to approximately how many times the atmospheric  $\text{CO}_2$ ?

1. 10
2. 20
3. 25
4. 30

**Options :**

- 71087031909. 1
- 71087031910. 2
- 71087031911. 3
- 71087031912. 4

**Question Number : 119 Question Id : 7108707979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Zero competition is found in

1. Companion cropping
2. Parallel cropping
3. Synergistic cropping
4. Augmented cropping

**Options :**

- 71087031913. 1
- 71087031914. 2
- 71087031915. 3
- 71087031916. 4

**Question Number : 120 Question Id : 7108707980 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which Indian State won the FAO's Future Policy Gold Award - 2018?

1. Uttarakhand
2. Madhya Pradesh
3. Sikkim
4. Andhra Pradesh

**Options :**

- 71087031917. 1
- 71087031918. 2
- 71087031919. 3
- 71087031920. 4