

# National Testing Agency

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|------------------------------------------------|------------------------------------------------|
| <b>Question Paper Name :</b>                   | Agricultural Meteorology 23rd Sep 2020 Shift 2 |
| <b>Subject Name :</b>                          | Agricultural Meteorology                       |
| <b>Creation Date :</b>                         | 2020-09-23 19:33:45                            |
| <b>Duration :</b>                              | 120                                            |
| <b>Total Marks :</b>                           | 480                                            |
| <b>Display Marks:</b>                          | Yes                                            |
| <b>Share Answer Key With Delivery Engine :</b> | Yes                                            |
| <b>Actual Answer Key :</b>                     | Yes                                            |

## Agricultural Meteorology

|                                      |          |
|--------------------------------------|----------|
| <b>Group Number :</b>                | 1        |
| <b>Group Id :</b>                    | 71087063 |
| <b>Group Maximum Duration :</b>      | 0        |
| <b>Group Minimum Duration :</b>      | 120      |
| <b>Show Attended Group? :</b>        | No       |
| <b>Edit Attended Group? :</b>        | No       |
| <b>Break time :</b>                  | 0        |
| <b>Group Marks :</b>                 | 480      |
| <b>Is this Group for Examiner? :</b> | No       |

## Part A General Knowledge

|                                |           |
|--------------------------------|-----------|
| <b>Section Id :</b>            | 710870187 |
| <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>                      | 710870187 |
| <b>Question Shuffling Allowed :</b>          | Yes       |

**Question Number : 1 Question Id : 7108707501 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 :**

71087030001. 1  
71087030002. 2  
71087030003. 3  
71087030004. 4

**Question Number : 2 Question Id : 7108707502 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 :**

- 71087030005. 1
- 71087030006. 2
- 71087030007. 3
- 71087030008. 4

**Question Number : 3 Question Id : 7108707503 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 :**

- 71087030009. 1

71087030010. 2

71087030011. 3

71087030012. 4

**Question Number : 4 Question Id : 7108707504 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 :**

71087030013. 1

71087030014. 2

71087030015. 3

71087030016. 4

**Question Number : 5 Question Id : 7108707505 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 :**

71087030017. 1

71087030018. 2

71087030019. 3

71087030020. 4

**Question Number : 6 Question Id : 7108707506 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 :**

- 71087030021. 1
- 71087030022. 2
- 71087030023. 3
- 71087030024. 4

**Question Number : 7 Question Id : 7108707507 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 :**

- 71087030025. 1
- 71087030026. 2
- 71087030027. 3
- 71087030028. 4

**Question Number : 8 Question Id : 7108707508 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. Uttar 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 :**

71087030029. 1  
71087030030. 2  
71087030031. 3  
71087030032. 4

**Question Number : 9 Question Id : 7108707509 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 :**

71087030033. 1  
71087030034. 2  
71087030035. 3  
71087030036. 4

**Question Number : 10 Question Id : 7108707510 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 :**

71087030037. 1

71087030038. 2

71087030039. 3

71087030040. 4

**Question Number : 11 Question Id : 7108707511 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 :**

71087030041. 1

71087030042. 2

71087030043. 3

71087030044. 4

**Question Number : 12 Question Id : 7108707512 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 :**



71087030045. 1  
71087030046. 2  
71087030047. 3  
71087030048. 4

**Question Number : 13 Question Id : 7108707513 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 :**

71087030049. 1  
71087030050. 2  
71087030051. 3  
71087030052. 4

**Question Number : 14 Question Id : 7108707514 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 :**

- 71087030053. 1
- 71087030054. 2
- 71087030055. 3
- 71087030056. 4

**Question Number : 15 Question Id : 7108707515 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 :**

- 71087030057. 1
- 71087030058. 2
- 71087030059. 3
- 71087030060. 4

**Question Number : 16 Question Id : 7108707516 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 :**

- 71087030061. 1
- 71087030062. 2
- 71087030063. 3
- 71087030064. 4

**Question Number : 17 Question Id : 7108707517 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 :**

- 71087030065. 1
- 71087030066. 2
- 71087030067. 3
- 71087030068. 4

**Question Number : 18 Question Id : 7108707518 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 :**

- 71087030069. 1
- 71087030070. 2
- 71087030071. 3
- 71087030072. 4

**Question Number : 19 Question Id : 7108707519 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 :**

- 71087030073. 1
- 71087030074. 2
- 71087030075. 3
- 71087030076. 4

**Question Number : 20 Question Id : 7108707520 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 :**

- 71087030077. 1

71087030078. 2  
71087030079. 3  
71087030080. 4

## Part B Core Natural Resource Management I

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 710870188 |
| Section Number :                      | 2         |
| Section type :                        | Online    |
| Mandatory or Optional :               | Mandatory |
| Number of Questions :                 | 50        |
| Number of Questions to be attempted : | 50        |
| Section Marks :                       | 200       |
| Display Number Panel :                | Yes       |
| Group All Questions :                 | Yes       |
| Mark As Answered Required? :          | Yes       |
| Sub-Section Number :                  | 1         |
| Sub-Section Id :                      | 710870188 |
| Question Shuffling Allowed :          | Yes       |

**Question Number : 21 Question Id : 7108707521 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 host plant of *Striga* is

1. Tomato
2. Tobacco
3. Cotton
4. Sugarcane

**Options :**

71087030081. 1  
71087030082. 2

71087030083. 3

71087030084. 4

**Question Number : 22 Question Id : 7108707522 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 suitable mechanical measure in areas having mildly sloping land with high rainfall (> 800 mm) and relatively impermeable clayey soils is

1. Contour bunding
2. Ridge tying
3. Graded bunding
4. Bench terracing

**Options :**

71087030085. 1

71087030086. 2

71087030087. 3

71087030088. 4

**Question Number : 23 Question Id : 7108707523 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 researcher wants to layout an experiment with four irrigation levels and three fertilizer dose levels. Which one of the following will be a suitable field plot design with main plot treatments?

1. RCBD; either irrigation or fertilizer levels as main plot
2. LSD; irrigation as main plot
3. Factorial experiment; fertilizer as main plot
4. Split plot; irrigation levels as main plot

**Options :**

71087030089. 1  
71087030090. 2  
71087030091. 3  
71087030092. 4

**Question Number : 24 Question Id : 7108707524 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**

Capillary water is held by the forces of

1. Adhesion
2. Surface tension
3. Gravitational
4. Viscosity

**Options :**

71087030093. 1  
71087030094. 2  
71087030095. 3  
71087030096. 4

**Question Number : 25 Question Id : 7108707525 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 phenomenon of heat evolution when dry soil is placed in water is known as

1. Thixotrophy
2. Heat of wetting
3. Surface tension
4. Plasticity

**Options :**

71087030097. 1  
71087030098. 2

71087030099. 3

71087030100. 4

**Question Number : 26 Question Id : 7108707526 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**

Most destructive form of precipitation is

1. Rain
2. Rime
3. Snow
4. Hail

**Options :**

71087030101. 1

71087030102. 2

71087030103. 3

71087030104. 4

**Question Number : 27 Question Id : 7108707527 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 fog, visibility is reduced to

1. 7 km
2. 2-5 km
3. 1-2 km
4. < 1 km

**Options :**

71087030105. 1

71087030106. 2

71087030107. 3

71087030108. 4



**Question Number : 28 Question Id : 7108707528 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 greenhouse gas exclusively of industrial origin is

1. CFC
2. N<sub>2</sub>O
3. CO<sub>2</sub>
4. NH<sub>4</sub>

**Options :**

71087030109. 1  
71087030110. 2  
71087030111. 3  
71087030112. 4

**Question Number : 29 Question Id : 7108707529 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 spacing of crop is 50 x 20 cm, then per hectare plant population will be

1. 8000
2. 10000
3. 11000
4. 12000

**Options :**

71087030113. 1  
71087030114. 2  
71087030115. 3  
71087030116. 4

**Question Number : 30 Question Id : 7108707530 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**

IST is calculated based on longitude of

1. Delhi
2. Patna
3. Allahabad
4. Mumbai

**Options :**

71087030117. 1

71087030118. 2

71087030119. 3

71087030120. 4

**Question Number : 31 Question Id : 7108707531 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**

Average annual precipitation of earth is

1. 300 mm
2. 850 mm
3. 1050 mm
4. 1150 mm

**Options :**

71087030121. 1

71087030122. 2

71087030123. 3

71087030124. 4

**Question Number : 32 Question Id : 7108707532 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 mineral deficiency is likely to affect older leaves than younger leaves of a plant if

1. The mineral is a micronutrient
2. The mineral is mobile in plants
3. The element is part of chlorophyll
4. The element is a macronutrient

**Options :**

- 71087030125. 1
- 71087030126. 2
- 71087030127. 3
- 71087030128. 4

**Question Number : 33 Question Id : 7108707533 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**

Adjustment of individuals to their environment by means of a special structure or function is called

1. Mutation
2. Variation
3. Heredity
4. Adaptation

**Options :**

- 71087030129. 1
- 71087030130. 2
- 71087030131. 3
- 71087030132. 4

**Question Number : 34 Question Id : 7108707534 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 chromosomal abnormality where a homologous pair of chromosomes are lacking from the normal diploid is called

1. Nullisomy
2. Monosomy
3. Trisomy
4. Tetrasomy

**Options :**

71087030133. 1  
71087030134. 2  
71087030135. 3  
71087030136. 4

**Question Number : 35 Question Id : 7108707535 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 an irrigated field, crops lose water through

1. Evaporation
2. Evapotranspiration
3. Leaching
4. Erosion

**Options :**

71087030137. 1  
71087030138. 2  
71087030139. 3  
71087030140. 4

**Question Number : 36 Question Id : 7108707536 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 wind which affects the weather but NOT climate is called

1. Variable wind
2. Local wind
3. Periodical wind
4. Trade wind

**Options :**

71087030141. 1  
71087030142. 2  
71087030143. 3  
71087030144. 4

**Question Number : 37 Question Id : 7108707537 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 superiority of F1 over the better parent is known as

1. Mid parent heterosis
2. Average heterosis
3. Commercial heterosis
4. Heterobeliosis

**Options :**

71087030145. 1  
71087030146. 2  
71087030147. 3  
71087030148. 4

**Question Number : 38 Question Id : 7108707538 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 acidity develops by

1. Rainfall and chemical weathering of parent material
2. Temperature and humidity
3. Physical weathering and wind blow
4. Sunshine hours

**Options :**

- 71087030149. 1
- 71087030150. 2
- 71087030151. 3
- 71087030152. 4

**Question Number : 39 Question Id : 7108707539 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 latest nutrient added to the list of essential elements is

1. Mo
2. B
3. Cl
4. Ni

**Options :**

- 71087030153. 1
- 71087030154. 2
- 71087030155. 3
- 71087030156. 4

**Question Number : 40 Question Id : 7108707540 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**

Differences among the experimental units treated alike are known as

1. Mean sum of squares
2. Experimental error
3. Treatment sum of square
4. Critical difference

**Options :**

71087030157. 1  
71087030158. 2  
71087030159. 3  
71087030160. 4

**Question Number : 41 Question Id : 7108707541 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 organic carbon content of a soil is less than 0.5%, organic carbon status in the soil is

1. High
2. Optimum
3. Medium
4. Low

**Options :**

71087030161. 1  
71087030162. 2  
71087030163. 3  
71087030164. 4

**Question Number : 42 Question Id : 7108707542 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 soil structures has the highest hydraulic conductivity?

1. Platy
2. Prismatic
3. Crumby
4. Blocky

**Options :**

71087030165. 1  
71087030166. 2  
71087030167. 3  
71087030168. 4

**Question Number : 43 Question Id : 7108707543 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**

At saturation capacity, the movement of water is

1. Sluggish
2. Free
3. Unsaturated
4. Vapour

**Options :**

71087030169. 1  
71087030170. 2  
71087030171. 3  
71087030172. 4

**Question Number : 44 Question Id : 7108707544 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**



*Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) focuses on*

1. Intensive type of irrigation
2. Critical stage irrigation
3. Alternate furrow irrigation
4. Per drop more crop

**Options :**

- 71087030173. 1
- 71087030174. 2
- 71087030175. 3
- 71087030176. 4

**Question Number : 45 Question Id : 7108707545 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**

*Colchicine is generally used for*

1. Chromosome doubling
2. Mutation
3. Selfing
4. Hybridisation

**Options :**

- 71087030177. 1
- 71087030178. 2
- 71087030179. 3
- 71087030180. 4

**Question Number : 46 Question Id : 7108707546 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 seed pretreatment recommended to break physiological dormancy in many forests seeds is to treat seeds with

1. NAA
2. ABA
3. GA
4. IAA

**Options :**

71087030181. 1  
71087030182. 2  
71087030183. 3  
71087030184. 4

**Question Number : 47 Question Id : 7108707547 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 true of an ecosystem?

1. Primary consumers are least dependent on producers
2. Primary consumers outnumber producers
3. Producers are more than primary consumers
4. Secondary consumers are the largest and most powerful

**Options :**

71087030185. 1  
71087030186. 2  
71087030187. 3  
71087030188. 4

**Question Number : 48 Question Id : 7108707548 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

When is the wildlife week celebrated in India?

1. First week of June
2. First week of November
3. First week of October
4. First week of December

**Options :**

71087030189. 1  
71087030190. 2  
71087030191. 3  
71087030192. 4

**Question Number : 49 Question Id : 7108707549 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**

FACE experiments are concerned with

1. Analysing carbon trade scenarios
2. Global biodiversity protection
3. Ecosystem process and elevated CO2 evaluation
4. Climate change coupled with an atmosphere-ocean general circulation model

**Options :**

71087030193. 1  
71087030194. 2  
71087030195. 3  
71087030196. 4

**Question Number : 50 Question Id : 7108707550 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**

Inbreeding in self and cross pollinated plants leads to

1. Homozygosity
2. Heterozygosity
3. Hybrid vigour
4. Sterility

**Options :**

71087030197. 1

71087030198. 2

71087030199. 3

71087030200. 4

**Question Number : 51 Question Id : 7108707551 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 among the following is a resource conservation technique in terms of agricultural sustainability?

1. Low land paddy
2. Leaf colour chart
3. Monocropping
4. Flatbed method of planting

**Options :**

71087030201. 1

71087030202. 2

71087030203. 3

71087030204. 4

**Question Number : 52 Question Id : 7108707552 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 concept of bio-drainage involves growing of certain plants that

1. Conserve water
2. Discharge water along the trunk
3. Discharge excess water out of the field
4. Draw much water than is necessary for normal growth

**Options :**

71087030205. 1

71087030206. 2

71087030207. 3

71087030208. 4

**Question Number : 53 Question Id : 7108707553 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 soils has maximum capillarity?

1. Sandy clay
2. Clay
3. Clay loam
4. Sand

**Options :**

71087030209. 1

71087030210. 2

71087030211. 3

71087030212. 4

**Question Number : 54 Question Id : 7108707554 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**

One cusec discharge of water is

1. 0.028 lps
2. 28.32 lps
3. 0.28 lps
4. 283.2 lps

**Options :**

71087030213. 1  
71087030214. 2  
71087030215. 3  
71087030216. 4

**Question Number : 55 Question Id : 7108707555 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 particles suspended in air are called

1. Mist
2. Aerosol
3. Fog
4. Smoke

**Options :**

71087030217. 1  
71087030218. 2  
71087030219. 3  
71087030220. 4

**Question Number : 56 Question Id : 7108707556 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 repetitive growing of the same crop on the same land is called

1. Relay cropping
2. Mono cropping
3. Ratoon cropping
4. Rotation cropping

**Options :**

71087030221. 1  
71087030222. 2  
71087030223. 3  
71087030224. 4

**Question Number : 57 Question Id : 7108707557 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 time between the start of organic management and certification of crop is known as

1. Conversion period
2. Certification period
3. Diversification period
4. Conservation period

**Options :**

71087030225. 1  
71087030226. 2  
71087030227. 3  
71087030228. 4

**Question Number : 58 Question Id : 7108707558 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 value of  $R^2$  in regression analysis will be between

1.  $-\infty$  to  $+\infty$
2. 1 to  $+\infty$
3. -1 to +1
4. 0 to +1

**Options :**

71087030229. 1  
71087030230. 2  
71087030231. 3  
71087030232. 4

**Question Number : 59 Question Id : 7108707559 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**

Smaze is

1. Smoke + Fog
2. Fog + Haze
3. Smoke + Haze
4. Smoke + Fog + Haze

**Options :**

71087030233. 1  
71087030234. 2  
71087030235. 3  
71087030236. 4

**Question Number : 60 Question Id : 7108707560 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**



Barometer was invented in

1. 1642
2. 1643
3. 1699
4. 1600

**Options :**

71087030237. 1  
71087030238. 2  
71087030239. 3  
71087030240. 4

**Question Number : 61 Question Id : 7108707561 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**

Earth day falls on

1. 22 April
2. 23 April
3. 1 April
4. 2 March

**Options :**

71087030241. 1  
71087030242. 2  
71087030243. 3  
71087030244. 4

**Question Number : 62 Question Id : 7108707562 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**

Line joining points of equal precipitation in a given period on a map is

1. Isoline
2. Isohyet
3. Isotherm
4. Isobar

**Options :**

71087030245. 1  
71087030246. 2  
71087030247. 3  
71087030248. 4

**Question Number : 63 Question Id : 7108707563 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**

Doldrums are the zone of

1. Intertropical convergence
2. Intertropical divergence
3. Fronts
4. Jet stream

**Options :**

71087030249. 1  
71087030250. 2  
71087030251. 3  
71087030252. 4

**Question Number : 64 Question Id : 7108707564 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**

Annual temperature range at equator is

1. 2 °C
2. 14 °C
3. 16 °C
4. 8 °C

**Options :**

71087030253. 1  
71087030254. 2  
71087030255. 3  
71087030256. 4

**Question Number : 65 Question Id : 7108707565 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**

Lines joining points of equal temperature on a map are called

1. Isohyet
2. Isotherm
3. Isobar
4. Isopleth

**Options :**

71087030257. 1  
71087030258. 2  
71087030259. 3  
71087030260. 4

**Question Number : 66 Question Id : 7108707566 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**

Wind velocity is measured by

1. Anemometer
2. Wind vane
3. Rain gauge
4. Pan evaporimeter

**Options :**

71087030261. 1  
71087030262. 2  
71087030263. 3  
71087030264. 4

**Question Number : 67 Question Id : 7108707567 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 with pH 3.2 is

1. Neutral
2. Alkaline
3. Saline
4. Acidic

**Options :**

71087030265. 1  
71087030266. 2  
71087030267. 3  
71087030268. 4

**Question Number : 68 Question Id : 7108707568 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 major constituent of biogas is

1. Ethane
2. Propane
3. Methane
4. Butane

**Options :**

71087030269. 1  
71087030270. 2  
71087030271. 3  
71087030272. 4

**Question Number : 69 Question Id : 7108707569 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 study of periodic events of life cycle of a plant is called

1. Biology
2. Physiography
3. Concoology
4. Phenology

**Options :**

71087030273. 1  
71087030274. 2  
71087030275. 3  
71087030276. 4

**Question Number : 70 Question Id : 7108707570 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 areas in India is classified as a biodiversity hotspot?

1. Sundarbans
2. Western ghats
3. Eastern ghats
4. Gangetic plain

**Options :**

71087030277. 1

71087030278. 2

71087030279. 3

71087030280. 4

## Part C Agricultural Meteorology

|                                              |           |
|----------------------------------------------|-----------|
| <b>Section Id :</b>                          | 710870189 |
| <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>                      | 710870189 |
| <b>Question Shuffling Allowed :</b>          | Yes       |

**Question Number : 71 Question Id : 7108707571 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 infrared thermometer is used to measure

1. Virtual temperature
2. Potential temperature
3. PAR
4. Canopy temperature

**Options :**

- 71087030281. 1
- 71087030282. 2
- 71087030283. 3
- 71087030284. 4

**Question Number : 72 Question Id : 7108707572 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**

Aurora's are unique multicoloured fireworks in the polar sky in

1. Exosphere & Magnetosphere
2. Troposphere
3. Stratosphere
4. Mesosphere

**Options :**

- 71087030285. 1
- 71087030286. 2
- 71087030287. 3
- 71087030288. 4

**Question Number : 73 Question Id : 7108707573 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Which one of the following is NOT a form of precipitation?

1. Snow
2. Hail
3. Dew
4. Virga

**Options :**

71087030289. 1  
71087030290. 2  
71087030291. 3  
71087030292. 4

**Question Number : 74 Question Id : 7108707574 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**

Buys Ballot's Law describes the relationship between wind direction and

1. Pressure
2. Water vapour
3. Temperature
4. Relative humidity

**Options :**

71087030293. 1  
71087030294. 2  
71087030295. 3  
71087030296. 4

**Question Number : 75 Question Id : 7108707575 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**



Entropy is a measure of

1. Kinetic energy
2. Potential energy
3. Available energy
4. Unavailable energy

**Options :**

71087030297. 1  
71087030298. 2  
71087030299. 3  
71087030300. 4

**Question Number : 76 Question Id : 7108707576 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**

Synoptic scale in the horizontal direction varies between

1. 100 - 200 Km
2. 200 - 250 Km
3. 250 - 500 Km
4. 500 - 2000 Km

**Options :**

71087030301. 1  
71087030302. 2  
71087030303. 3  
71087030304. 4

**Question Number : 77 Question Id : 7108707577 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 geostrophic wind results from a balance between/among

1. Pressure Gradient Force and Coriolis Force
2. Centripetal Force, Pressure Gradient Force and Coriolis Force
3. Pressure Gradient Force, Coriolis Force and Friction
4. Coriolis Force and Friction

**Options :**

71087030305. 1  
71087030306. 2  
71087030307. 3  
71087030308. 4

**Question Number : 78 Question Id : 7108707578 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**

'Maunder Minimum' is a phenomenon related to

1. Lunar cycle
2. Sun spot cycle
3. Simpson theory
4. Rayleigh scattering

**Options :**

71087030309. 1  
71087030310. 2  
71087030311. 3  
71087030312. 4

**Question Number : 79 Question Id : 7108707579 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 dew point when dry bulb temperature is 24 °C and wet bulb temperature is 15 °C?

1. 4 °C
2. 36 °C
3. - 18 °C
4. 8 °C

**Options :**

71087030313. 1  
71087030314. 2  
71087030315. 3  
71087030316. 4

**Question Number : 80 Question Id : 7108707580 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 NOT correct about El Niño?

1. El Niño events occur ususally after an interval of 10 years.
2. El Niño typically peaks between November and January.
3. El Niño is not caused by climate change.
4. El Niño is responsible for the vast amount of heat over Pacific waters.

**Options :**

71087030317. 1  
71087030318. 2  
71087030319. 3  
71087030320. 4

**Question Number : 81 Question Id : 7108707581 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 you hold a sample of air at constant pressure, what happens to its temperature if the container holding the air sample expands?

1. Increases
2. Decreases
3. Remains constant
4. Can not judge

**Options :**

71087030321. 1  
71087030322. 2  
71087030323. 3  
71087030324. 4

**Question Number : 82 Question Id : 7108707582 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**

Modified Penman method was proposed by

1. Penman
2. Doorenbos and Pruitt
3. Thornthwaite
4. Hargreaves

**Options :**

71087030325. 1  
71087030326. 2  
71087030327. 3  
71087030328. 4

**Question Number : 83 Question Id : 7108707583 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 temperature which a dry air would have if its pressure and specific volume were equal to those of a sample of moist air, is called as

1. Potential temperature
2. Dry bulb temperature
3. Wet bulb temperature
4. Virtual temperature

**Options :**

71087030329. 1  
71087030330. 2  
71087030331. 3  
71087030332. 4

**Question Number : 84 Question Id : 7108707584 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**

'Ceilometer' is used to measure

1. Cloud height
2. Cloud amount
3. Solar radiation
4. Temperature

**Options :**

71087030333. 1  
71087030334. 2  
71087030335. 3  
71087030336. 4

**Question Number : 85 Question Id : 7108707585 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**

Pluviometer is used to measure

1. Raindrop size and velocity
2. Soil heat flux
3. Sunshine hours
4. Cloud height

**Options :**

71087030337. 1

71087030338. 2

71087030339. 3

71087030340. 4

**Question Number : 86 Question Id : 7108707586 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**

Oasis effect is related to

1. Rainfall
2. Evapotranspiration
3. Cloud
4. Sunshine hours

**Options :**

71087030341. 1

71087030342. 2

71087030343. 3

71087030344. 4

**Question Number : 87 Question Id : 7108707587 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

Maximum hurricane activity takes place between the latitude

1. 0 °N - 10 °N
2. 10 °N - 20 °N
3. 30 °N - 35 °N
4. 60 °N - 70 °N

**Options :**

71087030345. 1  
71087030346. 2  
71087030347. 3  
71087030348. 4

**Question Number : 88 Question Id : 7108707588 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**

Neutron Moisture Probe is used to measure

1. Plant moisture
2. Soil moisture
3. Dry matter
4. Canopy temperature

**Options :**

71087030349. 1  
71087030350. 2  
71087030351. 3  
71087030352. 4

**Question Number : 89 Question Id : 7108707589 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 wavelength of visible light shows the strongest influence on phototropism?

1. 0.45  $\mu\text{m}$
2. 0.35  $\mu\text{m}$
3. 0.51  $\mu\text{m}$
4. 0.69  $\mu\text{m}$

**Options :**

71087030353. 1  
71087030354. 2  
71087030355. 3  
71087030356. 4

**Question Number : 90 Question Id : 7108707590 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1**

Which of the following statements is correct about impact of weather on rice in reproductive stage?

1. Cloudy weather favours grain formation
2. Cloudy weather has a negative effect at this stage
3. Low temperature enhances pollen germination
4. Low temperature has a positive impact on panicle fertility

**Options :**

71087030357. 1  
71087030358. 2  
71087030359. 3  
71087030360. 4

**Question Number : 91 Question Id : 7108707591 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 vapour present in the atmosphere absorbs radiation in the wavelength

1. 5.3 - 7.7  $\mu\text{m}$
2. 2.3 - 3.3  $\mu\text{m}$
3. 3.3 - 3.7  $\mu\text{m}$
4. 3.7 - 5.2  $\mu\text{m}$

**Options :**

71087030361. 1  
71087030362. 2  
71087030363. 3  
71087030364. 4

**Question Number : 92 Question Id : 7108707592 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**

Wheat will have better growth and yield, if grown below

1. *Acacia nilotica*
2. Eucalyptus
3. Shisham
4. Kadamb

**Options :**

71087030365. 1  
71087030366. 2  
71087030367. 3  
71087030368. 4

**Question Number : 93 Question Id : 7108707593 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 human eye has maximum sensitivity to which spectrum of sunlight?

1. Sea green
2. Yellow
3. Red
4. Leaf green

**Options :**

71087030369. 1  
71087030370. 2  
71087030371. 3  
71087030372. 4

**Question Number : 94 Question Id : 7108707594 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**

Double Stevenson's Screen shelters

1. Max, Min, Dry bulb & wet bulb thermometers
2. Sky radiometer
3. Thermohygrograph
4. Piezometer

**Options :**

71087030373. 1  
71087030374. 2  
71087030375. 3  
71087030376. 4

**Question Number : 95 Question Id : 7108707595 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**

Mesosphere is characterized as the coldest layer of the atmosphere due to-

1. Scattering of terrestrial radiation from the Earth's surface
2. Relative lack of molecules to absorb solar radiation
3. Reflection of solar radiation by the atmosphere
4. Nonlinear biconstituent diffusion

**Options :**

- 71087030377. 1
- 71087030378. 2
- 71087030379. 3
- 71087030380. 4

**Question Number : 96 Question Id : 7108707596 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**

Instead of the heavier atoms and molecules settling out of the atmosphere, the atmosphere remains well mixed with respect to its constituents due to

1. Strong mixing as a result of uneven surface heating
2. Repulsion among particles with like charges and attraction among particles with opposite charges
3. Nearly infinite collisions between molecules of varying sizes
4. Updrafts and downdrafts

**Options :**

- 71087030381. 1
- 71087030382. 2
- 71087030383. 3
- 71087030384. 4

**Question Number : 97 Question Id : 7108707597 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 clear evidence of global dimming is

1. Reduced insolation
2. Reduced evaporation
3. Reduced rainfall
4. Reduced relative humidity

**Options :**

71087030385. 1  
71087030386. 2  
71087030387. 3  
71087030388. 4

**Question Number : 98 Question Id : 7108707598 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**

Bimetallic strip is used in thermograph

1. To make a balance on the lever
2. Due to varying degree of heat absorption by both metals
3. To provide mechanical strength by two metals
4. Due to varying expansion coefficient of both metals

**Options :**

71087030389. 1  
71087030390. 2  
71087030391. 3  
71087030392. 4

**Question Number : 99 Question Id : 7108707599 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**

IMD issues first southwest monsoon rainfall forecast on

1. 20<sup>th</sup> April
2. 24<sup>th</sup> April
3. 26<sup>th</sup> April
4. 1<sup>st</sup> May

**Options :**

71087030393. 1  
71087030394. 2  
71087030395. 3  
71087030396. 4

**Question Number : 100 Question Id : 7108707600 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**

Production of organic carbon/m<sup>2</sup>/year is highest in

1. Coastal upwelling ecosystems
2. Open ocean ecosystems
3. Antarctic ecosystems
4. Coastal ecosystems

**Options :**

71087030397. 1  
71087030398. 2  
71087030399. 3  
71087030400. 4

**Question Number : 101 Question Id : 7108707601 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**

'Bernoulli's Theorem' is linked to which one of the following instruments?

1. Wind vane
2. Anemometer
3. Raingauge
4. Dew gauge

**Options :**

71087030401. 1  
71087030402. 2  
71087030403. 3  
71087030404. 4

**Question Number : 102 Question Id : 7108707602 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**

Bowen ratio for semiarid region varies between

1. 2 - 6
2. 8 - 10
3. 10 - 12
4. 12 - 15

**Options :**

71087030405. 1  
71087030406. 2  
71087030407. 3  
71087030408. 4

**Question Number : 103 Question Id : 7108707603 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 prognostic chart is prepared for which type of weather forecast?

1. Synoptic
2. Numerical
3. Statistical
4. Long range

**Options :**

71087030409. 1  
71087030410. 2  
71087030411. 3  
71087030412. 4

**Question Number : 104 Question Id : 7108707604 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 maximum cardinal temperature for cool season crop ranges between

1. 30 - 36 °C
2. 38 - 42 °C
3. 31 - 37 °C
4. 25 - 30 °C

**Options :**

71087030413. 1  
71087030414. 2  
71087030415. 3  
71087030416. 4

**Question Number : 105 Question Id : 7108707605 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**

Reynold's number for laminar flow should be

1. 0
2. <1
3. >1
4. >2

**Options :**

71087030417. 1  
71087030418. 2  
71087030419. 3  
71087030420. 4

**Question Number : 106 Question Id : 7108707606 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**

High heat load is NOT required in case of wheat during which phase?

1. Vegetative
2. Reproductive
3. Tillering
4. Germination

**Options :**

71087030421. 1  
71087030422. 2  
71087030423. 3  
71087030424. 4

**Question Number : 107 Question Id : 7108707607 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 maximum possible solar radiation use efficiency of plants is

1. 7%
2. 11%
3. 17%
4. 21%

**Options :**

71087030425. 1  
71087030426. 2  
71087030427. 3  
71087030428. 4

**Question Number : 108 Question Id : 7108707608 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**

Physiological drought is a result of

1. Permafrost
2. High temperature
3. Low RH
4. High RH

**Options :**

71087030429. 1  
71087030430. 2  
71087030431. 3  
71087030432. 4

**Question Number : 109 Question Id : 7108707609 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 ideal wind speed for chemical spray in field is

1. < 8 Km/hr
2. 8 - 10 Km/hr
3. 10 - 12 Km/hr
4. 12 - 15 Km/hr

**Options :**

71087030433. 1  
71087030434. 2  
71087030435. 3  
71087030436. 4

**Question Number : 110 Question Id : 7108707610 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**

'COTTAM' is a crop simulation model of

1. Cow pea
2. Cotton
3. Pea
4. Gram

**Options :**

71087030437. 1  
71087030438. 2  
71087030439. 3  
71087030440. 4

**Question Number : 111 Question Id : 7108707611 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**

Higher temperature in green house/glass house is due to the inability of glass to transmit

1. Shortwave radiation
2. Longwave radiation
3. Microwave radiation
4. Ultraviolet radiation

**Options :**

71087030441. 1  
71087030442. 2  
71087030443. 3  
71087030444. 4

**Question Number : 112 Question Id : 7108707612 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**

Thermal death point of crop plants is

1. 20 - 30 °C
2. 30 - 40 °C
3. 40 - 50 °C
4. 50 - 60 °C

**Options :**

71087030445. 1  
71087030446. 2  
71087030447. 3  
71087030448. 4

**Question Number : 113 Question Id : 7108707613 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**

Aerological monsoon is related to

1. Upper level wind circulation
2. Ground level wind circulation
3. Equatorial westerlies
4. Tropical cyclone

**Options :**

71087030449. 1

71087030450. 2

71087030451. 3

71087030452. 4

**Question Number : 114 Question Id : 7108707614 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**

Agromet Advisory Bulletin is being prepared biweekly for farmers under Gramin Krishi Mausam Sewa (GKMS) Project based on medium range weather forecast issued by IMD for

1. 3 days
2. 5 days
3. 7 days
4. 10 days

**Options :**

71087030453. 1

71087030454. 2

71087030455. 3

71087030456. 4

**Question Number : 115 Question Id : 7108707615 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**

'Ozone', a green house gas occurs in

1. Stratosphere
2. Ionosphere
3. Troposphere
4. Mesosphere

**Options :**

71087030457. 1  
71087030458. 2  
71087030459. 3  
71087030460. 4

**Question Number : 116 Question Id : 7108707616 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 favourable climate for occurrence of pest and disease is

1. Warm and humid
2. Cool and humid
3. High rainfall
4. Cool and dry

**Options :**

71087030461. 1  
71087030462. 2  
71087030463. 3  
71087030464. 4

**Question Number : 117 Question Id : 7108707617 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical**

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

When did IMD start generating the experimental dynamical long-range forecast for the southwest monsoon?

1. 2004
2. 2005
3. 2008
4. 2010

**Options :**

71087030465. 1  
71087030466. 2  
71087030467. 3  
71087030468. 4

**Question Number : 118 Question Id : 7108707618 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 biogeographic zones of India has the highest area?

1. Deccan peninsula
2. Desert
3. Islands
4. Coasts

**Options :**

71087030469. 1  
71087030470. 2  
71087030471. 3  
71087030472. 4

**Question Number : 119 Question Id : 7108707619 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**

NCMRWF was established in the year

1. 1985
2. 1988
3. 1990
4. 1999

**Options :**

71087030473. 1  
71087030474. 2  
71087030475. 3  
71087030476. 4

**Question Number : 120 Question Id : 7108707620 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 medium range weather forecast is valid for a period of

1. > 10 days
2. 3 - 10 days
3. 1 - 3 days
4. 3 hours to 1 day

**Options :**

71087030477. 1  
71087030478. 2  
71087030479. 3  
71087030480. 4