

National Testing Agency

Question Paper Name :	Agricultural Meteorology 17th September Shift 2
Subject Name :	Agricultural Meteorology
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Agricultural Meteorology

Group Number :	1
Group Id :	190889135
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A: General Knowledge

Section Id :	190889329
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889369
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088915502 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 19088961901. 1
- 19088961902. 2
- 19088961903. 3
- 19088961904. 4

Question Number : 2 Question Id : 19088915503 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

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

Options :

19088961905. 1

19088961906. 2

19088961907. 3

19088961908. 4

Question Number : 3 Question Id : 19088915504 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961909. 1

19088961910. 2

19088961911. 3

19088961912. 4

Question Number : 4 Question Id : 19088915505 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961913. 1

19088961914. 2

19088961915. 3

19088961916.4

Question Number : 5 Question Id : 19088915506 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

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

Options :

19088961917.1

19088961918.2

19088961919.3

19088961920.4

Question Number : 6 Question Id : 19088915507 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961921.1

19088961922.2

19088961923.3

19088961924.4

Question Number : 7 Question Id : 19088915508 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

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

Options :

19088961925. 1

19088961926. 2

19088961927. 3

19088961928. 4

Question Number : 8 Question Id : 19088915509 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961929. 1

19088961930. 2

19088961931. 3

19088961932. 4

Question Number : 9 Question Id : 19088915510 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961933. 1

19088961934. 2

19088961935. 3

19088961936. 4

Question Number : 10 Question Id : 19088915511 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961937. 1

19088961938. 2

19088961939. 3

19088961940. 4

Question Number : 11 Question Id : 19088915512 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961941. 1

19088961942. 2

19088961943. 3

19088961944. 4

Question Number : 12 Question Id : 19088915513 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961945. 1

19088961946. 2

19088961947. 3

19088961948. 4

Question Number : 13 Question Id : 19088915514 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961949. 1

19088961950. 2

19088961951. 3

19088961952. 4

Question Number : 14 Question Id : 19088915515 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961953. 1

19088961954. 2

19088961955. 3

19088961956. 4

Question Number : 15 Question Id : 19088915516 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961957. 1

19088961958. 2

19088961959. 3

19088961960. 4

Question Number : 16 Question Id : 19088915517 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961961. 1

19088961962. 2

19088961963. 3

19088961964. 4

Question Number : 17 Question Id : 19088915518 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961965. 1

19088961966. 2

19088961967. 3

19088961968. 4

**Question Number : 18 Question Id : 19088915519 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

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

Options :

19088961969. 1

19088961970. 2

19088961971. 3

19088961972. 4

**Question Number : 19 Question Id : 19088915520 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961973. 1

19088961974. 2

19088961975. 3

19088961976. 4

Question Number : 20 Question Id : 19088915521 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088961977. 1

19088961978. 2

19088961979. 3

19088961980. 4

Part B Core : Natural Resource Management-I

Section Id : 190889330

Section Number : 2

Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889370
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 19088915522 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Digital Interpretation of forest data for the entire country has been done by Forest Survey of India, Dehradun from which cycle of assessment?

1. Fifth
2. Eighth
3. Ninth
4. Tenth

Options :

19088961981. 1

19088961982. 2

19088961983. 3

19088961984. 4

Question Number : 22 Question Id : 19088915523 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

As per ISFR 2019, the area (sq km) under moderate dense forest is

1. 3, 04, 499
2. 3, 08, 472
3. 3, 12, 684
4. 3, 16, 359

Options :

19088961985. 1

19088961986. 2

19088961987. 3

19088961988. 4

Question Number : 23 Question Id : 19088915524 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
Act	Year
A. National Green Tribunal Act	I. 2002
B. Biodiversity Act	II. 2010
C. The Environment (Protection) Act	III. 1991
D. The Public Liability Insurance act	IV. 1986

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

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

Options :

19088961989. 1

19088961990. 2

19088961991. 3

19088961992. 4

Question Number : 24 Question Id : 19088915525 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In India, the CGS of measurement was adopted in the year:

1. August, 1947
2. January, 1950
3. October, 1962
4. June, 1972

Options :

19088961993. 1

19088961994. 2

19088961995. 3

19088961996. 4

Question Number : 25 Question Id : 19088915526 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The 'Bidi' is a thin cigarette or mini-cigar filled with tobacco flake and commonly wrapped in leaves of:

1. *Bauhinia vahlii*
2. *Grewia optiva*
3. *Diospyros melanoxylon*
4. *Terminalia tomentosa*

Options :

19088961997. 1

19088961998. 2

19088961999. 3

19088962000. 4

Question Number : 26 Question Id : 19088915527 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Under Atamnirbhar Bharat Abhiyan, import duty on bamboo has been increased/decreased to encourage domestic use of bamboo

1. No change
2. 5 to 15%
3. 10 to 25%
4. 15 to 50%

Options :

19088962001. 1

19088962002. 2

19088962003. 3

19088962004. 4

Question Number : 27 Question Id : 19088915528 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Arrange the phases of Indian forest transition in the correct sequence.

- A. Deforestation phase
- B. Agriculture stabilization phase
- C. Afforestation phase
- D. Conservation and sustainable management

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

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

Options :

19088962005. 1

19088962006. 2

19088962007. 3

19088962008. 4

Question Number : 28 Question Id : 19088915529 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
International Day	Date and Month
A. Earth day	I. 22 May
B. Biodiversity day	II. 21 March
C. Environment day	III. 5 June
D. International day of forests	IV. 22 April

Choose the correct answer from the options given below

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

Options :

19088962009. 1

19088962010. 2

19088962011. 3

19088962012. 4

Question Number : 29 Question Id : 19088915530 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Under Kyoto Protocol, developing countries (non-annex 1 country) are eligible for:

1. Emission trading only
2. Joint Implementation only
3. Clean Development Mechanism only
4. Emission trading and Clean development Mechanism

Options :

19088962013. 1

19088962014. 2

19088962015. 3

19088962016. 4

**Question Number : 30 Question Id : 19088915531 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Van Dhan Yojana or Van Dhan Scheme an initiative targeting livelihood generation for tribal gatherers was launched in 2015

Statement II: Major objective of Van Dhan Yojana or Van Dhan Scheme of GOI was to transforming tribals into entrepreneurs

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 :

19088962017. 1

19088962018. 2

19088962019. 3

19088962020. 4

**Question Number : 31 Question Id : 19088915532 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is correct about maximum thermometer and minimum thermometer in Stevenson screen?

1. Both are placed vertically
2. Both are placed horizontally
3. Maximum thermometer is placed horizontally and minimum thermometer vertically
4. Both are placed at 30^0 angle with horizontal

Options :

19088962021. 1

19088962022. 2

19088962023. 3

19088962024. 4

Question Number : 32 Question Id : 19088915533 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which clouds are associated with Nor'wester shower?

1. Nimbostratus clouds
2. Cumulonimbus clouds
3. Altostratus clouds
4. Noctilucent clouds

Options :

19088962025. 1

19088962026. 2

19088962027. 3

19088962028. 4

Question Number : 33 Question Id : 19088915534 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Who invented Barometer?

1. Edmand Halley
2. Benedetto Castelli
3. Evangelista Torricelli
4. Galileo Galilei

Options :

19088962029. 1

19088962030. 2

19088962031. 3

19088962032. 4

Question Number : 34 Question Id : 19088915535 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following climatic phenomena brings rainfall in Tamil Nadu from November to January ?

1. South west monsoon
2. North east monsoon
3. Nor'wester shower
4. Western disturbances

Options :

19088962033. 1

19088962034. 2

19088962035. 3

19088962036. 4

Question Number : 35 Question Id : 19088915536 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the normal date of onset of monsoon in Kerala ?

1. May 25
2. June 1
3. June 15
4. June 29

Options :

19088962037. 1

19088962038. 2

19088962039. 3

19088962040. 4

Question Number : 36 Question Id : 19088915537 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the full form of IMD ?

1. India Meteorological Department
2. Indian Metrology Department
3. Indian Meteorological Division
4. International Meteorological Department

Options :

19088962041. 1

19088962042. 2

19088962043. 3

19088962044. 4

Question Number : 37 Question Id : 19088915538 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the value of one knot in km/h?

1. 1.301
2. 1.609
3. 1.852
4. 3.000

Options :

19088962045. 1

19088962046. 2

19088962047. 3

19088962048. 4

Question Number : 38 Question Id : 19088915539 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Read the statements below:

- A. Latitudes are parallel to each other.
- B. Longitudes are parallel to each other.
- C. International date line is approximately on or near 180° longitude.
- D. 0° latitude is called equator.

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

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

Options :

19088962049. 1

19088962050. 2

19088962051. 3

19088962052. 4

Question Number : 39 Question Id : 19088915540 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Arrange the following according to increasing wind speed.

- A. Cyclonic Storm
- B. Deep Depression
- C. Depression
- D. Low Pressure

Choose the *correct* answer from the options given below

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

Options :

19088962053. 1

19088962054. 2

19088962055. 3

19088962056. 4

Question Number : 40 Question Id : 19088915541 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which law states that the wavelength of maximum intensity of radiation emitted by a black body is inversely proportional to its absolute temperature?

1. Planck's Law
2. Stefan-Boltzman's Law
3. Kirchoff's Law
4. Wein's Displacement Law

Options :

19088962057. 1

19088962058. 2

19088962059. 3

19088962060. 4

Question Number : 41 Question Id : 19088915542 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT a form of precipitation?

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

Options :

19088962061. 1

19088962062. 2

19088962063. 3

Question Number : 42 Question Id : 19088915543 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Atmospheric phenomena	Meteor class
A. Rainbow	I. Hydrometeor
B. Dust storm	II. Electrometeor
C. Thunderstorm	III. Photometeor
D. Snowfall	IV. Lithometeor

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

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

Options :

19088962065.1

19088962066.2

19088962067.3

19088962068.4

Question Number : 43 Question Id : 19088915544 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the value of environmental lapse rate at troposphere?

1. $10\text{ }^{\circ}\text{C km}^{-1}$
2. $6.5\text{ }^{\circ}\text{C km}^{-1}$
3. $4.5\text{ }^{\circ}\text{C km}^{-1}$
4. $3.5\text{ }^{\circ}\text{C km}^{-1}$

Options :

19088962069. 1

19088962070. 2

19088962071. 3

19088962072. 4

**Question Number : 44 Question Id : 19088915545 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : Polar regions of the earth get nearly six-month day and six-month night in a year.

Reason R : Day and night occur due to rotation of the earth on its own axis.

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 :

19088962073. 1

19088962074. 2

19088962075. 3

19088962076. 4

**Question Number : 45 Question Id : 19088915546 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Select the correct statements from the following:

- A. Prevailing westerlies are related to Ferrel cell.
- B. Trade winds are related to Hadley cell.
- C. Prevailing westerlies are related to Hadley cell.
- D. Polar cell gives rise to polar easterlies.

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

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

Options :

19088962077. 1

19088962078. 2

19088962079. 3

19088962080. 4

Question Number : 46 Question Id : 19088915547 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Who wrote the book "Talking environment"?

- 1. Sunita Narayan
- 2. Al Gore
- 3. R. K. Pachauri
- 4. Vandana Shiva

Options :

19088962081. 1

19088962082. 2

19088962083. 3

19088962084. 4

Question Number : 47 Question Id : 19088915548 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which decade considered as United Nation's "Decade of Biodiversity"?

1. 2001-2010
2. 2011-2020
3. 1991-2000
4. 1981-1990

Options :

19088962085. 1

19088962086. 2

19088962087. 3

19088962088. 4

Question Number : 48 Question Id : 19088915549 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the major component of flyash?

1. Al_2O_3
2. K_2O
3. Fe_2O_3
4. SiO_2

Options :

19088962089. 1

19088962090. 2

19088962091. 3

19088962092. 4

Question Number : 49 Question Id : 19088915550 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In which device corona discharge occurs?

1. Wet scrubber
2. Thermal precipitator
3. Catalytic precipitator
4. Electrostatic precipitator

Options :

19088962093. 1

19088962094. 2

19088962095. 3

19088962096. 4

Question Number : 50 Question Id : 19088915551 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which type of forest has maximum area in India?

1. Tropical moist deciduous forest
2. Tropical wet evergreen forest
3. Tropical dry deciduous forest
4. Tropical semi evergreen forest

Options :

19088962097. 1

19088962098. 2

19088962099. 3

19088962100. 4

Question Number : 51 Question Id : 19088915552 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is the form of total amount of water present in soil?

1. Chresard
2. Echard
3. Hollard
4. Morrard

Options :

19088962101. 1

19088962102. 2

19088962103. 3

19088962104. 4

Question Number : 52 Question Id : 19088915553 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In which of the following system “Double digging” method is used?

1. Bio-intensive agriculture
2. Deforestation
3. Afforestation
4. Water conservation

Options :

19088962105. 1

19088962106. 2

19088962107. 3

19088962108. 4

Question Number : 53 Question Id : 19088915554 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is permissible sound level at day time in commercial areas (dBA)?

1. 75
2. 65
3. 55
4. 50

Options :

19088962109. 1

19088962110. 2

19088962111. 3

19088962112.4

Question Number : 54 Question Id : 19088915555 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is an absorbing solution used for the sampling of SO_2 from ambient air in the respirable dust sampler (RDS)?

1. Sodium hydroxide and sodium arsenite
2. Potassium tetrachloro mercurate (TCM)
3. 1% KI in 0.1 M Phosphate buffer
4. 0.1N Sulphuric acid

Options :

19088962113.1

19088962114.2

19088962115.3

19088962116.4

Question Number : 55 Question Id : 19088915556 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is the dominant source of NO_x in the atmosphere?

1. Thermal NO_x
2. Fuel NO_x
3. Atmospheric reactions
4. Photochemical smog

Options :

19088962117.1

19088962118.2

19088962119.3

19088962120.4

Question Number : 56 Question Id : 19088915557 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If the organic carbon content of a soil profile with a depth of 125 cm is 0.2%, the SOC stock density of the profile will be (assume bulk density = 1.5 Mg m^{-3})

1. 250 t ha^{-1}
2. 25 t km^{-2}
3. 37.5 t km^{-2}
4. 37.5 t ha^{-1}

Options :

19088962121. 1

19088962122. 2

19088962123. 3

19088962124. 4

Question Number : 57 Question Id : 19088915558 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Flux of water through a saturated soil column depends on

1. Hydraulic conductivity of soil column only
2. Hydraulic gradient of the soil column only
3. Amount of water supplied to the soil column only
4. Both hydraulic conductivity and hydraulic gradient of soil column

Options :

19088962125. 1

19088962126. 2

19088962127. 3

19088962128. 4

Question Number : 58 Question Id : 19088915559 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If wind speed increases by three times, the erosive energy of the wind regime will be increased by a factor of

1. One
2. Three
3. Six
4. Nine

Options :

19088962129. 1

19088962130. 2

19088962131. 3

19088962132. 4

Question Number : 59 Question Id : 19088915560 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If the size of a nanoparticle is decreased by two times, the surface-to-volume ratio of the nanoparticle will

1. Increase by two times
2. Remain the same
3. Decrease by two times
4. Increase by eight times

Options :

19088962133. 1

19088962134. 2

19088962135. 3

19088962136. 4

Question Number : 60 Question Id : 19088915561 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When a monochromatic light of a characteristic wavelength is passed through a medium, the absorbance of the light by the medium depends on

1. Concentration of the medium only
2. Path length of the medium only
3. Both on path length and concentration of the medium
4. Intensity and wavelength of the light

Options :

19088962137. 1

19088962138. 2

19088962139. 3

19088962140. 4

**Question Number : 61 Question Id : 19088915562 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

In soil structural evaluation study, it is often said 'Aggregation is flocculation **plus**'. This '**plus**' refers to:

1. settling
2. arrangement
3. sedimentation
4. cementation

Options :

19088962141. 1

19088962142. 2

19088962143. 3

19088962144. 4

**Question Number : 62 Question Id : 19088915563 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following statements about forms of precipitation are true?

- A. Drizzle is fairly uniform precipitation composed exclusively of fine drops
- B. In drizzle, drops must be very close together
- C. Drops larger than drizzle form rain
- D. Small drops can also form rain when drops are widely apart

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

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

Options :

19088962145. 1

19088962146. 2

19088962147. 3

19088962148. 4

**Question Number : 63 Question Id : 19088915564 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Isotopes of an atom do NOT have

- 1. the same number of electrons
- 2. the same number of protons
- 3. the same number of neutrons
- 4. the same total number of electrons & protons

Options :

19088962149. 1

19088962150. 2

19088962151. 3

19088962152. 4

Question Number : 64 Question Id : 19088915565 Question Type : MCQ Option :

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

SI unit of Energy is Joule. If the dimensions of mass, length and time are M, L and T, respectively, then dimension of Energy is

1. $M^1L^1T^{-2}$
2. $M^2L^2T^{-2}$
3. $M^2L^2T^{-1}$
4. $M^1L^2T^{-2}$

Options :

19088962153. 1

19088962154. 2

19088962155. 3

19088962156. 4

Question Number : 65 Question Id : 19088915566 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the atmosphere layer where most of weather phenomena occurs?

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

Options :

19088962157. 1

19088962158. 2

19088962159. 3

19088962160. 4

Question Number : 66 Question Id : 19088915567 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following models simulates soil water flow processes?

1. SWAT
2. HYDRUS
3. MIKE SHE
4. CROPWAT

Options :

19088962161. 1

19088962162. 2

19088962163. 3

19088962164. 4

**Question Number : 67 Question Id : 19088915568 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

For a soil being compacted, which of the following statement/statements are true?

- A. Bulk density of the soil increases
- B. Macropore volume of the soil decreases
- C. Micropore volume decreases
- D. Mesopore volume of soil increases

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

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

Options :

19088962165. 1

19088962166. 2

19088962167. 3

19088962168. 4

Question Number : 68 Question Id : 19088915569 Question Type : MCQ Option :

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : Map coordinate system is the result of projection of geographic coordinate system

Reason R : Projection is a mathematical transformation of three-dimensional Earth into two-dimensional flat surface (paper)

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 :

19088962169. 1

19088962170. 2

19088962171. 3

19088962172. 4

Question Number : 69 Question Id : 19088915570 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
(Physical parameter)	(SI Unit)
A. Work	I. Megagram per cubic meter
B. Momentum	II. Meter
C. Density	III. Joule
D. Wavelength	IV. kg.m/s

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

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

Options :

19088962173. 1

19088962174. 2

19088962175. 3

19088962176. 4

Question Number : 70 Question Id : 19088915571 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the India's first satellite launched in space?

1. Rohini
2. Kalpana
3. INSAT
4. Aryabhata

Options :

19088962177. 1

19088962178. 2

19088962179. 3

19088962180. 4

Part C : Agricultural Meteorology

Section Id : 190889331

Section Number : 3

Section type : Online

Mandatory or Optional : Mandatory

Number of Questions : 50

Number of Questions to be attempted : 50

Section Marks : 200

Enable Mark as Answered Mark for Review and Clear Response : Yes

Sub-Section Number : 1
Sub-Section Id : 190889371
Question Shuffling Allowed : Yes

Question Number : 71 Question Id : 19088915572 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which region of atmosphere is having the lowest temperature?

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

Options :

19088962181. 1

19088962182. 2

19088962183. 3

19088962184. 4

Question Number : 72 Question Id : 19088915573 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The atmosphere contains about 78% nitrogen and 21% oxygen. Upto what approximate height from the earth's surface, this proportion remains nearly constant?

1. 16 km
2. 50 km
3. 80 km
4. 500 km

Options :

19088962185. 1

19088962186. 2

19088962187. 3

19088962188. 4

Question Number : 73 Question Id : 19088915574 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a unit of pressure?

1. Atmosphere
2. Pascal
3. Newton
4. Torr

Options :

19088962189. 1

19088962190. 2

19088962191. 3

19088962192. 4

Question Number : 74 Question Id : 19088915575 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Ekman spiral' is related to which atmospheric parameter?

1. Wind
2. Temperature
3. Radiation
4. Rainfall

Options :

19088962193. 1

19088962194. 2

19088962195. 3

19088962196. 4

Question Number : 75 Question Id : 19088915576 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the weather phenomena is/are associated with funnel shaped cloud?

- A. Typhoon
- B. Cyclone
- C. Tornado
- D. Hurricane

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

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

Options :

19088962197. 1

19088962198. 2

19088962199. 3

19088962200. 4

Question Number : 76 Question Id : 19088915577 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
Agromet Parameters	Measuring instruments
A. Actual evapotranspiration	I. Sonic Anemometer
B. Amount of rainfall	II. Ceilometer
C. Cloud height	III. Lysimeter
D. Wind speed	IV. Pluviometer

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

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

Options :

19088962201. 1

19088962202. 2

19088962203. 3

19088962204. 4

**Question Number : 77 Question Id : 19088915578 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : The temperature increases with height in the stratosphere.

Reason R : Ozone absorbs ultra violet radiation in the stratosphere and makes the stratosphere warm.

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 :

19088962205. 1

19088962206. 2

19088962207. 3

19088962208. 4

**Question Number : 78 Question Id : 19088915579 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the new normal date of onset of monsoon at Delhi ?

1. May 25
2. June 1
3. June 27
4. June 29

Options :

19088962209. 1

19088962210. 2

19088962211. 3

19088962212. 4

Question Number : 79 Question Id : 19088915580 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

During which months the earth as a whole gets maximum solar radiation?

1. May-June
2. September-October
3. December-January
4. March-April

Options :

19088962213. 1

19088962214. 2

19088962215. 3

19088962216. 4

Question Number : 80 Question Id : 19088915581 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Examine the following statements and find the correct combination.

Statement I: Rational Climatic Classification (1948) was given by Penmann.

Statement II: Potential Evapotranspiration concept was used in Rational Climatic Classification (1948).

In light of the above statements, choose the *correct* 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 :

19088962217. 1

19088962218. 2

19088962219. 3

19088962220. 4

**Question Number : 81 Question Id : 19088915582 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

For which of the following activities 'Standardized precipitation index' is used?

1. Flood monitoring
2. Drought monitoring
3. Evapotranspiration estimation
4. Raifall intensity analysis

Options :

19088962221. 1

19088962222. 2

19088962223. 3

19088962224. 4

**Question Number : 82 Question Id : 19088915583 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Identify the climate list, in increasing order of their moisture index values:

1. Perhumid – humid - sub humid - semi arid - arid
2. Humid-sub humid- perhumid-semi arid- arid
3. Arid- semi arid – sub humid – humid – per humid
4. Semi arid- arid- sub humid – humid – per humid

Options :

19088962225. 1

19088962226. 2

19088962227. 3

19088962228. 4

Question Number : 83 Question Id : 19088915584 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
Surface wind system	Name of wind
A. Sub tropical high to equatorial low	I. Westerly
B. Sub tropical high to sub polar low	II. Hurricane
C. Polar high to sub polar low	III. Easterly
D. Cyclone in Caribbean sea	IV. Trade

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

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

Options :

19088962229. 1

19088962230. 2

19088962231. 3

19088962232. 4

Question Number : 84 Question Id : 19088915585 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : Cyclone does not form between 5°N and 5°S latitudes.

Reason R : Coriolis force in equatorial belt is either zero or very weak.

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 :

19088962233. 1

19088962234. 2

19088962235. 3

19088962236. 4

Question Number : 85 Question Id : 19088915586 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the date of winter solstice in the southern hemisphere ?

1. 22nd December
2. 21st March
3. 21st June
4. 23rd September

Options :

19088962237. 1

19088962238. 2

19088962239. 3

19088962240. 4

Question Number : 86 Question Id : 19088915587 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What will happen to the thermal conductivity of a soil, when soil particle size is reduced?

1. Increases
2. Decreases
3. Unchanged
4. Changes only when diffused radiation falls on soil

Options :

19088962241. 1

19088962242. 2

19088962243. 3

19088962244. 4

Question Number : 87 Question Id : 19088915588 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The heat conduction within a soil profile is better when the soil moisture content is

1. 10%
2. 12%
3. 15%
4. 20%

Options :

19088962245. 1

19088962246. 2

19088962247. 3

19088962248. 4

Question Number : 88 Question Id : 19088915589 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Thermal diffusivity is the ratio between thermal conductivity and -

1. Volumetric heat capacity
2. Permeability
3. Intrinsic capacity
4. Temperature range

Options :

19088962249. 1

19088962250. 2

19088962251. 3

19088962252. 4

Question Number : 89 Question Id : 19088915590 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Crop Name	Minimum Cardinal Temperature ($^{\circ}$C)
A. Rice	I. 1- 2
B. Wheat	II. 3- 4.5
C. Maize	III. 8 - 10
D. Peas	IV. 10 - 12

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

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

Options :

19088962253. 1

19088962254. 2

19088962255. 3

19088962256. 4

Question Number : 90 Question Id : 19088915591 Question Type : MCQ Option :

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In reduced ceiling method, where $T_{max} \leq T_{ceiling}$, then what will be the value of GDD?

1. $GDD = \Sigma (T_{mean} - T_{base})$
2. $GDD = \Sigma (T_{max} - T_{base})$
3. $GDD = \Sigma (T_{min} - T_{base})$
4. $GDD = \Sigma [(T_{ceiling} - (T_{max} - T_{ceiling})) - T_{base}]$

Options :

19088962257. 1

19088962258. 2

19088962259. 3

19088962260. 4

Question Number : 91 Question Id : 19088915592 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following weather parameter(s) affects the horse sickness disease transmission?

1. Prolonged rainy season
2. Prolonged rainless period
3. Heavy rain followed by drought
4. High diurnal temperature

Options :

19088962261. 1

19088962262. 2

19088962263. 3

19088962264. 4

Question Number : 92 Question Id : 19088915593 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the optimum cardinal temperature for rice?

1. 18 to 20 degree C
2. 20 to 25 degree C
3. 30 to 32 degree C
4. 35 to 40 degree C

Options :

19088962265. 1

19088962266. 2

19088962267. 3

19088962268. 4

Question Number : 93 Question Id : 19088915594 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The chaotic nature of many flows in the form of irregular variations in velocity (change in direction), temperature and concentration about a mean value in space and time is called

- A. Roughness parameter
- B. Zero plane displacement
- C. Turbulence
- D. Reynold number

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

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

Options :

19088962269. 1

19088962270. 2

19088962271. 3

19088962272. 4

Question Number : 94 Question Id : 19088915595 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the case of C3 plants, when the PAR intensity increases, PAR conversion efficiency

1. will be more
2. will increase exponentially
3. will be less
4. will exponentially reduce

Options :

19088962273. 1

19088962274. 2

19088962275. 3

19088962276. 4

Question Number : 95 Question Id : 19088915596 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
Parameters	Unit
A. Radiation use efficiency	I. Pascal
B. Photosynthetic photon flux density	II. $\mu\text{mol m}^{-2} \text{s}^{-1}$
C. Shear stress	III. Unitless
D. Raynold number	IV. g MJ^{-1}

Choose the correct answer from the options given below:

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

Options :

19088962277. 1

19088962278. 2

19088962279. 3

19088962280. 4

Question Number : 96 Question Id : 19088915597 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ratio of inertial force to viscous force, expressed as dimensionless quantity is called

1. Net radiation flux
2. Von Karman's constant
3. Eddy covariance
4. Reynolds number

Options :

19088962281. 1

19088962282. 2

19088962283. 3

19088962284. 4

Question Number : 97 Question Id : 19088915598 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Penetration of infra-red radiation into crop canopy is maximum during

- A. Early morning
- B. Midday
- C. Afternoon
- D. Early evening

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 :

19088962285. 1

19088962286. 2

19088962287. 3

19088962288. 4

Question Number : 98 Question Id : 19088915599 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following term is associated with Beer-Lambert Law?

1. Albedo
2. Diffused radiation
3. Extinction coefficient
4. Radiation use efficiency

Options :

19088962289. 1

19088962290. 2

19088962291. 3

19088962292. 4

Question Number : 99 Question Id : 19088915600 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following method relies on measurements of the fluctuating components of wind within constant flux region of the surface boundary layer?

1. Aerodynamic resistance method
2. Bowen's method
3. Eddy covariance method
4. Latent heat analogy method

Options :

19088962293. 1

19088962294. 2

19088962295. 3

19088962296. 4

**Question Number : 100 Question Id : 19088915601 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following indicate reference evapo-transpiration (ET_0)?

1. Evapo-transpiration from any grasses
2. Evapo-transpiration capacity of the atmosphere
3. Evapo-transpiration from any surface
4. Evapo-transpiration from any crop

Options :

19088962297. 1

19088962298. 2

19088962299. 3

19088962300. 4

**Question Number : 101 Question Id : 19088915602 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : The required conditions for evaporation to take place from a bare soil surface are the supply of energy and supply of water to the soil surface.

Reason R : The magnitude of the process is inversely proportional to the vapour pressure deficit.

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 :

19088962301. 1

19088962302. 2

19088962303. 3

19088962304. 4

**Question Number : 102 Question Id : 19088915603 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following method is used for the measurement of actual evapo-transpiration?

1. Penman-Monteith method
2. FAO Penman-Monteith method
3. Lysimeter method
4. Blaney-Criddle method

Options :

19088962305. 1

19088962306. 2

19088962307. 3

19088962308. 4

**Question Number : 103 Question Id : 19088915604 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Under a given soil and water condition, total water loss from a grassland into the atmosphere is called-

1. Potential Evapotranspiration
2. Actual Evapotranspiration
3. Pan Evaporation
4. Crop Transpiration

Options :

19088962309. 1

19088962310. 2

19088962311. 3

19088962312. 4

Question Number : 104 Question Id : 19088915605 Question Type : MCQ Option

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is most appropriate regarding the application of the eddy covariance technique?

1. Measurement of 3 dimensional wind velocity within crop profile
2. Measurement of albedo
3. Measurement of ozone footprint
4. Measurement of gases, sensible heat and latent heat fluxes

Options :

19088962313. 1

19088962314. 2

19088962315. 3

19088962316. 4

Question Number : 105 Question Id : 19088915606 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Assertion A : The value of crop coefficient varies during the crop growth periods and it can be more than one.

Reason R : The actual evapotranspiration of a crop can never be more than the reference evapotranspiration.

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 :

19088962317. 1

19088962318. 2

19088962319. 3

19088962320. 4

**Question Number : 106 Question Id : 19088915607 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following sequence is correct in terms of the crop water needs?

1. Sugarcane>Rice> Millet>Maize
2. Rice>Sugarcane>Maize>Millet
3. Sugarcane>Rice>Maize>Millet
4. Sugarcane>Rice> Millet>Maize

Options :

19088962321. 1

19088962322. 2

19088962323. 3

19088962324. 4

**Question Number : 107 Question Id : 19088915608 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following model considers probabilistic approach?

1. Mechanistic model
2. Stochastic model
3. Deterministic model
4. Static model

Options :

19088962325. 1

19088962326. 2

19088962327. 3

19088962328. 4

**Question Number : 108 Question Id : 19088915609 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is considered to be a numerical computation technique used in combination with dynamic mathematical models?

1. Regression model
2. Multivariate analysis
3. System simulation
4. Stochastic computation

Options :

19088962329. 1

19088962330. 2

19088962331. 3

19088962332. 4

Question Number : 109 Question Id : 19088915610 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the standard sequence of using Crop Growth Simulation Model for a new variety?

1. validation – generation of genetic coefficient –sensitivity analysis-application
2. generation of genetic coefficient – sensitivity analysis-validation- application
3. sensitivity analysis - generation of genetic coefficient – validation-application
4. generation of genetic coefficient – validation-sensitivity analysis-application

Options :

19088962333. 1

19088962334. 2

19088962335. 3

19088962336. 4

Question Number : 110 Question Id : 19088915611 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is state variable in case of a crop simulation model?

1. Leaf area index
2. Photosynthesis
3. Transpiration
4. Respiration

Options :

19088962337. 1

19088962338. 2

19088962339. 3

19088962340. 4

Question Number : 111 Question Id : 19088915612 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is responsible for the anthropogenic climate change phenomenon?

1. Volcanic eruption
2. Variation in earth's orbital characteristics
3. Variation in solar output
4. Effect of greenhouse gases

Options :

19088962341. 1

19088962342. 2

19088962343. 3

19088962344. 4

Question Number : 112 Question Id : 19088915613 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which type of process is "Terrestrial or Soil Carbon sequestration" related to climate change?

1. Adaptation
2. Mitigation
3. Avoidance
4. Protection

Options :

19088962345. 1

19088962346. 2

19088962347. 3

19088962348. 4

**Question Number : 113 Question Id : 19088915614 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following sequence is correct in terms of the Global Warming Potential?

1. $\text{CO}_2 > \text{CH}_4 > \text{N}_2\text{O} > \text{SF}_6$
2. $\text{SF}_6 > \text{N}_2\text{O} > \text{CH}_4 > \text{CO}_2$
3. $\text{N}_2\text{O} > \text{CH}_4 > \text{CO}_2 > \text{SF}_6$
4. $\text{N}_2\text{O} > \text{F}_6 > \text{CH}_4 > \text{CO}_2$

Options :

19088962349. 1

19088962350. 2

19088962351. 3

19088962352. 4

**Question Number : 114 Question Id : 19088915615 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the threshold value for “extremely heavy rainfall” by IMD criteria?

1. 175.5 mm in 24 hours
2. 204.5 mm in 24 hours
3. 220.5 mm in 24 hours
4. 225.5 mm in 24 hours

Options :

19088962353. 1

19088962354. 2

19088962355. 3

19088962356. 4

**Question Number : 115 Question Id : 19088915616 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is correct about the 'Orange alert' issued by IMD for weather warning?

1. Be prepared
2. Take action
3. Be updated
4. No action needed

Options :

19088962357. 1

19088962358. 2

19088962359. 3

19088962360. 4

**Question Number : 116 Question Id : 19088915617 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

At what height, geostationary satellites are placed above the earth surface?

1. 800 km
2. 1000 km
3. 18000 km
4. 36000 km

Options :

19088962361. 1

19088962362. 2

19088962363. 3

19088962364. 4

**Question Number : 117 Question Id : 19088915618 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following statements about weather related mobile apps is NOT correct?

1. 'UMANG' app is an all in one, single, unified, secure and multi services mobile app
2. 'Meghdoot' app is developed by Space Application Centre (SAC), Ahmedabad
3. 'DAMINI' app is meant for lightning alert in a particular area
4. 'Meghdoot' app is meant for agromet advisory services

Options :

19088962365. 1

19088962366. 2

19088962367. 3

19088962368. 4

Question Number : 118 Question Id : 19088915619 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

For how many days in advance, weather forecasts are currently issued by IMD in DAMU Project?

1. 3 days
2. 5 days
3. 10 days
4. 21 days

Options :

19088962369. 1

19088962370. 2

19088962371. 3

19088962372. 4

Question Number : 119 Question Id : 19088915620 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following statement is NOT correct about the crop weather calendar?

1. It is a useful tool for weather risk management in agriculture
2. It consists of mainly three segments/parts
3. It is not dynamic in the context of climate change
4. Weather based crop insurance products are linked to it

Options :

19088962373. 1

19088962374. 2

19088962375. 3

19088962376. 4

Question Number : 120 Question Id : 19088915621 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following forecasted weather parameters are used in Agromet Advisory Services for preparation of Agromet Advisory bulletins ?

1. Temperature, cloud, rainfall, humidity and wind
2. Temperature, sunshine, rainfall, cloud and wind
3. Rainfall, cloud, temperature, sunshine and humidity
4. Rainfall, temperature, cloud, pressure and sunshine

Options :

19088962377. 1

19088962378. 2

19088962379. 3

19088962380. 4