

National Testing Agency

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PHYSICAL SCIENCES

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PHYSICAL SCIENCES

Section Id :	190889142
Section Number :	1
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Mandatory or Optional :	Mandatory

Number of Questions :	120
Number of Questions to be attempted :	120
Section Marks :	480
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889182
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1908897462 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Terracing is an effective method of soil conservation in -

1. Hilly area
2. Plain area
3. Desert area
4. Coastal regions

Options :

19088929741. 1

19088929742. 2

19088929743. 3

19088929744. 4

Question Number : 2 Question Id : 1908897463 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ploughing across the slope in hilly area is called

1. Terracing
2. Crop rotation
3. Contour ploughing
4. No till farming

Options :

19088929745. 1

19088929746. 2

19088929747. 3

19088929748. 4

Question Number : 3 Question Id : 1908897464 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Shifting cultivation practiced in North East India is called

1. Sawami cultivation
2. Jhum cultivation
3. Harhi cultivation
4. Solum cultivation

Options :

19088929749. 1

19088929750. 2

19088929751. 3

19088929752. 4

Question Number : 4 Question Id : 1908897465 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Advance stage of sheet erosion is

1. Splash erosion
2. Rill ersion
3. Gully erosion
4. Rain drop erosion

Options :

19088929753. 1

19088929754. 2

19088929755. 3

19088929756. 4

Question Number : 5 Question Id : 1908897466 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which crops cover the largest area under drip irrigation in India?

1. Field crops
2. Silviculture crops
3. Horticulture crops
4. Agrisilviculture crops

Options :

19088929757. 1

19088929758. 2

19088929759. 3

19088929760. 4

Question Number : 6 Question Id : 1908897467 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following practice does NOT contribute to *in-situ* moisture conservation?

1. Live mulching
2. Straw mulching
3. Plastic mulching
4. Weeding

Options :

19088929761. 1

19088929762. 2

19088929763. 3

19088929764. 4

Question Number : 7 Question Id : 1908897468 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The quantity of water required to irrigate one hectare area with 4 cm deep water is

1. 4,00,000 liters
2. 40,000 liters
3. 4,000 liters
4. 40,00,000 liters

Options :

19088929765. 1

19088929766. 2

19088929767. 3

19088929768. 4

Question Number : 8 Question Id : 1908897469 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Organic mulches are useful to

1. Increase evaporation
2. Decrease evaporation
3. Increase evapotranspiration
4. Increase potential evapotranspiration

Options :

19088929769. 1

19088929770. 2

19088929771. 3

19088929772. 4

Question Number : 9 Question Id : 1908897470 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The size of a Micro Watershed is

1. 100 to 1,000 ha
2. 1,000 to 10,000 ha
3. 10,000 to 50,000 ha
4. Greater than 50,000 ha

Options :

19088929773. 1

19088929774. 2

19088929775. 3

19088929776. 4

Question Number : 10 Question Id : 1908897471 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In Wind Erosion Equation,

$E = f(I \times K \times C \times L \times V)$, I denotes

1. Soil erodibility index
2. Soil surface roughness
3. Climatic factor
4. Vegetative cover

Options :

19088929777. 1

19088929778. 2

19088929779. 3

19088929780. 4

Question Number : 11 Question Id : 1908897472 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Rain gauge is used for measuring of

1. Irrigation
2. Drainage
3. Rainfall
4. Runoff

Options :

19088929781. 1

19088929782. 2

19088929783. 3

19088929784. 4

Question Number : 12 Question Id : 1908897473 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Identify the series with decreasing order of water use efficiency.

1. i. Pitcher pot irrigation, ii. Drip irrigation, iii. Sprinkler irrigation, iv. Surface irrigation
2. i. Surface irrigation, ii. Sprinkler irrigation, iii. Drip irrigation, iv. Pitcher pot irrigation
3. i. Drip irrigation, ii. Sprinkler irrigation, iii. Surface irrigation, iv. Pitcher pot irrigation
4. i. Sprinkler irrigation, ii. Surface irrigation, iii. Pitcher pot irrigation, iv. drip irrigation

Options :

19088929785. 1

19088929786. 2

19088929787. 3

19088929788. 4

Question Number : 13 Question Id : 1908897474 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The land capability classes suitable for cultivation are

1. I - IV
2. V - VIII
3. II - V
4. II - VI

Options :

19088929789. 1

19088929790. 2

19088929791. 3

19088929792. 4

Question Number : 14 Question Id : 1908897475 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The most erosion resistance crop is

1. Black gram
2. Maize
3. Jowar
4. Bajra

Options :

19088929793. 1

19088929794. 2

19088929795. 3

19088929796. 4

Question Number : 15 Question Id : 1908897476 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Soil particles size in suspension phenomenon during wind erosion is

1. < 0.1 mm
2. $0.1 - 0.5$ mm
3. $0.5 - 1.0$ mm
4. > 1.0 mm

Options :

19088929797. 1

19088929798. 2

19088929799. 3

19088929800. 4

Question Number : 16 Question Id : 1908897477 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Agronomical measure for soil conservation is

1. Contour furrow
2. Contour ridge
3. Strip cropping
4. Contour ridge and furrow

Options :

19088929801. 1

19088929802. 2

19088929803. 3

19088929804. 4

Question Number : 17 Question Id : 1908897478 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The irrigation likely to be used, where water supply is ample and market value of crop is low, is

1. Drip irrigation
2. Check basin irrigation
3. Wild flooding irrigation
4. Sprinkler irrigation

Options :

19088929805. 1

19088929806. 2

19088929807.3

19088929808.4

Question Number : 18 Question Id : 1908897479 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Silviculture is related with the study of

1. Grasses
2. Forestry
3. Vegetables
4. Agriculture growth

Options :

19088929809.1

19088929810.2

19088929811.3

19088929812.4

Question Number : 19 Question Id : 1908897480 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

World Soil Day is celebrated every year on

1. 10th September
2. 5th October
3. 10th November
4. 5th December

Options :

19088929813.1

19088929814.2

19088929815.3

19088929816.4

Question Number : 20 Question Id : 1908897481 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Presssure plate apparatus is used for measurement of soil moisture tension upto

1. 4.2 bars
2. 0.33 bar
3. 30.0 bars
4. 15.0 bars

Options :

19088929817. 1

19088929818. 2

19088929819. 3

19088929820. 4

Question Number : 21 Question Id : 1908897482 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following crops has minimum water requirement?

1. Rice
2. Sugacane
3. Maize
4. Wheat

Options :

19088929821. 1

19088929822. 2

19088929823. 3

19088929824. 4

Question Number : 22 Question Id : 1908897483 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the rainfed wheat crop fields, susanta soil water potential is normally

1. Positive
2. Zero
3. Negative
4. Unit

Options :

19088929825. 1

19088929826. 2

19088929827. 3

19088929828. 4

Question Number : 23 Question Id : 1908897484 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Direct method for the determination of soil moisture is

1. Gravimetric method
2. Gypsum block method
3. Tensiometer method
4. Pressure plate apparatus method

Options :

19088929829. 1

19088929830. 2

19088929831. 3

19088929832. 4

Question Number : 24 Question Id : 1908897485 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Micro sprinkler method of irrigation has the advantages of both

1. Sprinkler and drip irrigation methods.
2. Sprinkler and surface irrigation methods.
3. Drip and surface irrigation methods.
4. Surface and subsurface irrigation methods.

Options :

19088929833. 1

19088929834. 2

19088929835. 3

19088929836. 4

Question Number : 25 Question Id : 1908897486 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Besides Rabi and Kharif which is the third crop season in India?

1. Zaid
2. Barsati
3. Sharad
4. Winter

Options :

19088929837. 1

19088929838. 2

19088929839. 3

19088929840. 4

Question Number : 26 Question Id : 1908897487 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Diversified farming system is otherwise known as

1. Integrated Farming System
2. Hilly Farming
3. Jhum Farming
4. Terrace Farming

Options :

19088929841. 1

19088929842. 2

19088929843. 3

19088929844. 4

Question Number : 27 Question Id : 1908897488 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The term Agronomy is derived from

1. German word
2. Latin word
3. Spanish word
4. Greek word

Options :

19088929845. 1

19088929846. 2

19088929847. 3

19088929848. 4

Question Number : 28 Question Id : 1908897489 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The most advanced and efficient practice of fertilization is

1. Drip fertigation
2. Row application of fertilizer
3. Ring application of fertilizer
4. Topdressing of fertilizer

Options :

19088929849. 1

19088929850. 2

19088929851. 3

19088929852. 4

Question Number : 29 Question Id : 1908897490 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following programme has considered the “poorest of the poor” people as its target group?

1. Training of Rural Youth for Self-Employment (TRYSEM)
2. Indira Awaas Yojana (IAY)
3. Integrated Rural Development Programme (IRDP)
4. Jawaharlal Nehru Rozgar Yojana (JRY)

Options :

19088929853. 1

19088929854. 2

19088929855. 3

19088929856. 4

Question Number : 30 Question Id : 1908897491 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The Strategic Research Extension Plan (SREP) is related with

1. National Institute of Agricultural Extension Management (MANAGE)
2. Agricultural Technology Information Centre (ATIC)
3. Agricultural Technology Management Agency (ATMA)
4. National Bank for Agricultural and Rural Development (NABARD)

Options :

19088929857. 1

19088929858. 2

19088929859. 3

19088929860. 4

Question Number : 31 Question Id : 1908897492 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following soil water matric potential corresponds to field capacity soil water content?

1. pF 2.5
2. pF 4.2
3. pF 1.0
4. pF 0

Options :

19088929861. 1

19088929862. 2

19088929863. 3

19088929864. 4

Question Number : 32 Question Id : 1908897493 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A layer of ice is formed on the surface of lakes in cold regions because:

1. Ice is less dense than liquid water
2. There is no exchange of heat between water below and the cold air above
3. Cold wind makes the surface water to freeze
4. Ice is denser than liquid water

Options :

19088929865. 1

19088929866. 2

19088929867. 3

19088929868. 4

Question Number : 33 Question Id : 1908897494 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Height of capillary rise of water in soil is

- A. inversely proportional to the radius of the tube
- B. inversely proportional to the density of water
- C. directly proportional to the radius of water
- D. directly proportional to the hydrostatic pressure difference
- E. inversely proportional to the surface tension of water

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

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

Options :

19088929869. 1

19088929870. 2

19088929871. 3

19088929872. 4

Question Number : 34 Question Id : 1908897495 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is typically a non-expanding clay mineral?

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

Options :

19088929873. 1

19088929874. 2

19088929875. 3

19088929876. 4

Question Number : 35 Question Id : 1908897496 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Saturated flow in soil	I. Wien's law
B. Soil textural analysis	II. Darcy's law
C. Wavelength of emitted radiation-temperature relation	III. Kirchhoff's law
D. Diffusive flux of gas	IV. Stokes law
	V. Fick's law

Choose the correct answer from the options given below:

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

Options :

19088929877. 1

19088929878. 2

19088929879. 3

19088929880. 4

Question Number : 36 Question Id : 1908897497 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 : Mulch conserves soil moisture

Reason R : Mulches cut off solar radiation falling on soil surface and reduce evaporation

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 :

19088929881. 1

19088929882. 2

19088929883. 3

19088929884. 4

Question Number : 37 Question Id : 1908897498 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The term 'GPS' stands for:

1. Geographical Positioning System
2. Global Projection System
3. Global Positioning Science
4. Global Positioning System

Options :

19088929885. 1

19088929886. 2

19088929887. 3

19088929888. 4

Question Number : 38 Question Id : 1908897499 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Indian Space Research Organization is located in

1. New Delhi
2. Ahmedabad
3. Hyderabad
4. Bangalore

Options :

19088929889. 1

19088929890. 2

19088929891. 3

19088929892. 4

Question Number : 39 Question Id : 1908897500 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Arrange the following forms of soil consistency in relation to increasing soil wetness

- A. Soft
- B. Friable
- C. Sticky
- D. Plastic
- E. Harsh

Choose the *correct* answer from the options given below

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

Options :

19088929893. 1

19088929894. 2

19088929895. 3

19088929896. 4

Question Number : 40 Question Id : 1908897501 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT true?

1. Soil aeration depends on volume fraction of air-filled pores
2. Soil air has similar gaseous composition as of atmosphere
3. Soil aeration is restricted in compacted soil
4. Manuring increases CO₂ content in soil

Options :

19088929897. 1

19088929898. 2

19088929899. 3

19088929900. 4

Question Number : 41 Question Id : 1908897502 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The Indian Remote Sensing Satellites (IRS)

- A. look over a fixed point at the same local time
- B. are at a low altitude (<1000 km)
- C. are used for weather forecasting
- D. have large agricultural and natural resources applications
- E. provide service to telecommunications

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

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

Options :

19088929901. 1

19088929902. 2

19088929903. 3

19088929904. 4

Question Number : 42 Question Id : 1908897503 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Evapotranspiration is directly measured by

1. Pan evaporimeter
2. Penman- Monteith equation
3. Hygrometer
4. Lysimeter

Options :

19088929905. 1

19088929906. 2

19088929907. 3

19088929908. 4

Question Number : 43 Question Id : 1908897504 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following radiation laws describes the relation between peak wavelength and temperature of an emitting body?

1. Kirchhoff's
2. Planck's
3. Stefan-Boltzmann's
4. Wien's

Options :

19088929909. 1

19088929910. 2

19088929911. 3

19088929912. 4

Question Number : 44 Question Id : 1908897505 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Saturated hydraulic conductivity is measured in the field by

1. Constant head permeameter
2. Tensiometer
3. Infiltrometer
4. Guelph permeameter

Options :

19088929913. 1

19088929914. 2

19088929915. 3

19088929916. 4

Question Number : 45 Question Id : 1908897506 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The soil infiltrability is

1. supply controlled
2. atmosphere controlled
3. soil profile controlled
4. only top few cm layer controlled

Options :

19088929917. 1

19088929918. 2

19088929919. 3

19088929920. 4

Question Number : 46 Question Id : 1908897507 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Who among the following, is credited for developing the concept of SRI (System of Rice Intensification)

1. Henri de Laulanié
2. Yuan Longping
3. MS Swaminathan
4. Norman E. Borlaug

Options :

19088929921. 1

19088929922. 2

19088929923. 3

19088929924. 4

Question Number : 47 Question Id : 1908897508 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Golden rice is rich in

1. Vitamin A
2. Vitamin B
3. Vitamin C
4. Vitamin K

Options :

19088929925. 1

19088929926. 2

19088929927. 3

19088929928. 4

Question Number : 48 Question Id : 1908897509 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the percentage of freshwater used in agriculture globally?

1. 90%
2. 70%
3. 50%
4. 30%

Options :

19088929929. 1

19088929930. 2

19088929931. 3

19088929932. 4

Question Number : 49 Question Id : 1908897510 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following compound releases heat when dissolved in water?

1. Barium chloride
2. Ammonium chloride
3. Lead chloride
4. Calcium chloride

Options :

19088929933. 1

19088929934. 2

19088929935. 3

19088929936. 4

Question Number : 50 Question Id : 1908897511 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When dissolved in water, which of the following produces an ionic solution?

1. O₂
2. CH₄
3. CaCl₂
4. C₁₂H₂₂O₁₁

Options :

19088929937. 1

19088929938. 2

19088929939. 3

19088929940. 4

Question Number : 51 Question Id : 1908897512 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Spectroscopy deals with interaction of electromagnetic radiation with matter. What is the speed of this radiation in vacuum in m/s?

1. 6×10^8
2. 5×10^8
3. 4×10^8
4. 3×10^8

Options :

19088929941. 1

19088929942. 2

19088929943. 3

19088929944. 4

Question Number : 52 Question Id : 1908897513 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Directorate of Wheat Research (DWR) is located at-

1. Hyderabad
2. New Delhi
3. Indore
4. Karnal

Options :

19088929945. 1

19088929946. 2

19088929947. 3

19088929948. 4

Question Number : 53 Question Id : 1908897514 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Hidden hunger' in plants means

1. Visual deficiency symptoms only when the nutrient is deficient
2. Severe yield reduction may occur without appearance of deficiency symptoms
3. The nutrient is not actually deficient but apparently seems to be deficient
4. Visual deficiency symptoms of a element are suppressed by other elements

Options :

19088929949. 1

19088929950. 2

19088929951. 3

19088929952. 4

Question Number : 54 Question Id : 1908897515 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following statement(s) is/are true for tensiometer?

- A. It measures soil water matric potential
- B. It is simple in operation and very useful for scheduling irrigation
- C. It can also be used for measuring soil water flux
- D. Although limited to < 1 bar matric potential, this range can be increased by increasing permeability of its porous cup

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

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

Options :

19088929953. 1

19088929954. 2

19088929955. 3

19088929956. 4

Question Number : 55 Question Id : 1908897516 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: Equilibrium water content in soil at a certain matric potential is higher when the soil is under drying process (desorption) compared to when the soil is under wetting process (sorption).

Reason R: Contact angle between water and the soil solid phase is greater during imbibition of water than during drainage.

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

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

Options :

19088929957. 1

19088929958. 2

19088929959. 3

19088929960. 4

Question Number : 56 Question Id : 1908897517 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Volumetric composition of soil solid is:

1. 25 %
2. 45 %
3. 50 %
4. 5 %

Options :

19088929961. 1

19088929962. 2

19088929963. 3

19088929964. 4

Question Number : 57 Question Id : 1908897518 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which soil has the maximum bulk density

1. Silty Clay Loam
2. Clayey
3. Loamy
4. Sandy

Options :

19088929965. 1

19088929966. 2

19088929967. 3

19088929968. 4

Question Number : 58 Question Id : 1908897519 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following step is NOT associated with particle size analysis?

1. Dispersion
2. Fractionation
3. Flocculation
4. Sedimentation

Options :

19088929969. 1

19088929970. 2

19088929971. 3

19088929972. 4

Question Number : 59 Question Id : 1908897520 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The angle formed between oxygen and hydrogen in water molecule is

1. 50°
2. 75°
3. 100°
4. 105°

Options :

19088929973. 1

19088929974. 2

19088929975. 3

19088929976. 4

Question Number : 60 Question Id : 1908897521 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Chemical weathering involves with disintegration and decomposition of minerals

Statement II: Biological weathering accelerates physical and chemical weathering

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

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

Options :

19088929977. 1

19088929978. 2

19088929979. 3

19088929980. 4

Question Number : 61 Question Id : 1908897522 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Who is called Father of Pedology

1. N.C. Brady
2. E.W.Hillgard
3. H. Jenny
4. V.V.Dokuchaev

Options :

19088929981. 1

19088929982. 2

19088929983. 3

19088929984. 4

Question Number : 62 Question Id : 1908897523 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following soil types has highest clay content?

1. Silty clay loam
2. Silty clay
3. Sandy loam
4. Silty loam

Options :

19088929985. 1

19088929986. 2

19088929987. 3

19088929988. 4

Question Number : 63 Question Id : 1908897524 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which does NOT belong to the soil order in Soil Taxonomy?

1. Oxisols
2. Andisols
3. Podisols
4. Gelisols

Options :

19088929989. 1

19088929990. 2

19088929991. 3

19088929992. 4

Question Number : 64 Question Id : 1908897525 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the horizons of a soil profile represents the zone of accumulation of clay, sesquioxides, humus alone or in combination?

1. A horizon
2. B horizon
3. C horizon
4. E horizon

Options :

19088929993. 1

19088929994. 2

19088929995. 3

19088929996. 4

Question Number : 65 Question Id : 1908897526 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the active formers in soil development

1. Parent Material
2. Topography
3. Organisms
4. Time or Age of the soil

Options :

19088929997. 1

19088929998. 2

19088929999. 3

19088930000. 4

Question Number : 66 Question Id : 1908897527 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
Weathering reactions	Weathering process
A. Removal of iron and aluminium oxides humus etc in a humid climate	I. Eluviation
B. Reduction of iron in the waterlogged horizon	II. Podlisation
C. Intermixing of the horizons	III. Gleisation
D. Mobilisation and translocation of Fe & Al oxides humus, CaCO ₃ and other salts	IV. Pedoturbation

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

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

Options :

19088930001. 1

19088930002. 2

19088930003. 3

19088930004. 4

Question Number : 67 Question Id : 1908897528 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The epipedon which is light in colour and contains <1% organic matter is known as Ochric epipedon

Statement II: Dark coloured epipedon having >50% base saturation and organic matter of >1% is known as Histic epipedon

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

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

Options :

19088930005. 1

19088930006. 2

19088930007. 3

19088930008. 4

Question Number : 68 Question Id : 1908897529 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following relationship is correct

1. $C_{H^+} + C_{OH^-} = 14$
2. $C_{H^+} \times C_{OH^-} = 14$
3. $pH + pOH = 14$
4. $pH \times pOH = 14$

Options :

19088930009. 1

19088930010. 2

19088930011. 3

19088930012. 4

Question Number : 69 Question Id : 1908897530 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the irrigation water quality classification, **high** salinity class represents EC (dS/m) in the range of-

1. 0 - 0.25
2. 0.25 - 0.50
3. 0.50 - 0.75
4. 0.75 - 2.25

Options :

19088930013. 1

19088930014. 2

19088930015. 3

19088930016. 4

Question Number : 70 Question Id : 1908897531 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following soil suborder belongs to the soil order of inceptisols?

1. Aquepts
2. Ustalfs
3. Andepts
4. Udults

Options :

19088930017. 1

19088930018. 2

19088930019. 3

19088930020. 4

Question Number : 71 Question Id : 1908897532 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Stoke's law suggests that the velocity of fall of particles is directly proportional to

1. Density of the particle
2. Density of the suspension
3. Radius of the particle
4. Viscosity of the medium

Options :

19088930021. 1

19088930022. 2

19088930023. 3

19088930024. 4

Question Number : 72 Question Id : 1908897533 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
Structural characteristics of the minerals	Type of the clay mineral
A. Presence of K ion in the interlayer space of crystal structure in clay minerals	I. Vermiculite
B. Mg ions are adsorbed between the crystal units of clay minerals	II. Smectite
C. Presence of one brucite layer ($Mg_3(OH)_6$) along with 2:1 type of clay mineral in the crystal lattice	III. Illite
D. 2:1 type of expanding minerals	IV. Chlorite

Choose the correct answer from the options given below:

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

Options :

19088930025. 1

19088930026. 2

19088930027. 3

19088930028. 4

Question Number : 73 Question Id : 1908897534 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following structure is most desirable for agricultural operations

1. Prismatic
2. Platelike
3. Subangular blocky
4. Crumb

Options :

19088930029. 1

19088930030. 2

19088930031. 3

19088930032. 4

Question Number : 74 Question Id : 1908897535 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Higher exchangeable sodium(>15%) makes the soil dispersed and favours soil crustation

Statement II: Exchangeable calcium in soil helps in forming stable soil aggregates by its effect of flocculation

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

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

Options :

- 19088930033. 1
- 19088930034. 2
- 19088930035. 3
- 19088930036. 4

Question Number : 75 Question Id : 1908897536 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In which of the indices of soil structure, the logarithm of mean diameter is used

- 1. Mean weight diameter
- 2. Geometric mean diameter
- 3. Structural coefficient
- 4. Dispersion coefficient

Options :

- 19088930037. 1
- 19088930038. 2
- 19088930039. 3
- 19088930040. 4

Question Number : 76 Question Id : 1908897537 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The organisms *Cyanobacteria* were formerly known as

- 1. Blue green algae
- 2. Beijerinckia
- 3. Green green algae
- 4. Streptococci

Options :

- 19088930041. 1
- 19088930042. 2
- 19088930043. 3

19088930044. 4

Question Number : 77 Question Id : 1908897538 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following biofertilizer is used to fix Nitrogen from the atmosphere nonsymbiotically

1. Rhizobium
2. Azolla
3. Azotobactor
4. Azospirillum

Options :

19088930045. 1

19088930046. 2

19088930047. 3

19088930048. 4

Question Number : 78 Question Id : 1908897539 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The oxygen diffusion rate (ODR) is measured by the method of

1. Neutron scattering
2. Gamma-ray attenuation
3. Platinum microelectrode
4. Thermocouple psychrometer

Options :

19088930049. 1

19088930050. 2

19088930051. 3

19088930052. 4

Question Number : 79 Question Id : 1908897540 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Rate of flow of water through a porous medium under unit hydraulic gradients is known as

1. Flux density
2. Hydraulic conductivity
3. permeability
4. Infiltration capacity

Options :

19088930053. 1

19088930054. 2

19088930055. 3

19088930056. 4

Question Number : 80 Question Id : 1908897541 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following element is the latest inclusion as the essential nutrient element

1. Boron
2. Cobalt
3. Chlorine
4. Nickel

Options :

19088930057. 1

19088930058. 2

19088930059. 3

19088930060. 4

Question Number : 81 Question Id : 1908897542 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT related to anion exchange capacity?

1. Dissociation of carboxyl and phenolic group on broken crystal edges
2. Dissociation of OH ions from Al-OH group on the broken crystal edges and addition of H ion on these sites
3. Dissociation of OH ion from Al-OH group on the broken crystal edges and addition of H ion on these sites
4. Addition of H ion on humus micelle

Options :

19088930061. 1

19088930062. 2

19088930063. 3

19088930064. 4

Question Number : 82 Question Id : 1908897543 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Phosphorous is taken up by the plant from the soil in the form of

1. H_2PO_4^- only
2. HPO_4^{2-} only
3. PO_4^{3-} only
4. Both H_2PO_4^- & HPO_4^{2-}

Options :

19088930065. 1

19088930066. 2

19088930067. 3

19088930068. 4

Question Number : 83 Question Id : 1908897544 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Die-back symptoms in citrus are observed due to the deficiency of

1. Copper
2. Boron
3. Potassium
4. Calcium

Options :

19088930069. 1

19088930070. 2

19088930071. 3

19088930072. 4

Question Number : 84 Question Id : 1908897545 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Soil pH is measured from the soil water suspension in the ratio of

1. 1 : 1
2. 1 : 2.5
3. 1 : 5
4. 1 : 10

Options :

19088930073. 1

19088930074. 2

19088930075. 3

19088930076. 4

Question Number : 85 Question Id : 1908897546 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The structural formula of phyllosilicates is

1. SiO_4^{4-}
2. $\text{Si}_2\text{O}_7^{6-}$
3. $\text{Si}_2\text{O}_5^{2-}$
4. SiO_3^{2-}

Options :

19088930077. 1

19088930078. 2

19088930079. 3

19088930080. 4

Question Number : 86 Question Id : 1908897547 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the concentrated organic manure

1. FYM
2. Compost
3. Bone meal
4. Cow dung

Options :

19088930081. 1

19088930082. 2

19088930083. 3

19088930084. 4

Question Number : 87 Question Id : 1908897548 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following methods CANNOT be used to prevent N loss through denitrification?

1. Use of non-nitrate fertiliser
2. Use of nitrate fertiliser
3. Split application of fertiliser
4. Deep placement of fertiliser

Options :

19088930085. 1

19088930086. 2

19088930087. 3

19088930088. 4

Question Number : 88 Question Id : 1908897549 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
Role of the nutrient	Nutrient elements
A. Energy Carrier	I. MO
B. Constituent of chlorophyll	II. P
C. Nitrate reductase	III. Zn
D. Khaira disease	IV. Mg

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

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

Options :

19088930089. 1

19088930090. 2

19088930091. 3

19088930092. 4

Question Number : 89 Question Id : 1908897550 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which soil has more K fixation capacity

1. Montmorillonite
2. Vermiculite
3. Illite
4. Kaolinite

Options :

19088930093. 1

19088930094. 2

19088930095. 3

19088930096. 4

Question Number : 90 Question Id : 1908897551 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The process by which protein and proteinaceous compounds are decomposed into amino acids or amines is known as

1. Aminisation
2. Amonification
3. Immobilisation
4. Nitrification

Options :

19088930097. 1

19088930098. 2

19088930099. 3

19088930100. 4

Question Number : 91 Question Id : 1908897552 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
Diagnostic characteristics	Soil order
A. Clay rich, presence of smectite type of clay mineral	I. Alfisols
B. Frigid and pergelic soil temperature regime	II. Inceptisols
C. Immature soil, presence of cambic, umbric, and mollic horizon	III. Vertisols
D. Ochric epipedon with an argillic subsurface horizon	IV. Gleysols

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

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

Options :

19088930101. 1

19088930102. 2

19088930103. 3

19088930104. 4

Question Number : 92 Question Id : 1908897553 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In which of the following Azolla symbiotically associates to fix atmospheric nitrogen

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

Options :

19088930105. 1

19088930106. 2

19088930107. 3

19088930108.4

Question Number : 93 Question Id : 1908897554 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The organisms involved in the process of conversion of nitrate to nitrogen gas is

1. Nitrobactor
2. Azotobactor
3. Thiobacillus
4. Nitrocystis

Options :

19088930109.1

19088930110.2

19088930111.3

19088930112.4

Question Number : 94 Question Id : 1908897555 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The permanent negative charges result from the isomorphous substitution

Statement II: The permanent negative charges result from exposed crystal edges

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

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

Options :

19088930113.1

19088930114.2

19088930115.3

19088930116.4

Question Number : 95 Question Id : 1908897556 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Vesicular Arbuscular Mycorrhizae play active role in increasing the availability of -

1. N
2. P
3. Ca
4. S

Options :

19088930117.1

19088930118.2

19088930119.3

19088930120.4

Question Number : 96 Question Id : 1908897557 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The term oligotrophic refers to

1. Higher nutrients in water
2. High aquatic productivity
3. Algal blooms
4. Low nutrients and low productivity

Options :

19088930121.1

19088930122.2

19088930123.3

19088930124.4

Question Number : 97 Question Id : 1908897558 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Organic nutrients in water bodies promote -

A. Growth of natural population of aquatic bacteria

B. Biological Oxygen Demand

C. Eutrophication

Choose the most **appropriate answer** from the options given below:

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

Options :

19088930125. 1

19088930126. 2

19088930127. 3

19088930128. 4

Question Number : 98 Question Id : 1908897559 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The running water is called

1. Lentic
2. Lotic
3. Mesic
4. Xeric

Options :

19088930129. 1

19088930130. 2

19088930131. 3

19088930132. 4

Question Number : 99 Question Id : 1908897560 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Spent wash is highly polluted effluent released from

1. Pulp and paper industry
2. Tannery
3. Sugar industry
4. Distillery industry

Options :

19088930133. 1

19088930134. 2

19088930135. 3

19088930136. 4

Question Number : 100 Question Id : 1908897561 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ecological or physiological races are also known as

1. Ecads
2. Ecotone
3. Ecophens
4. Ecotypes

Options :

19088930137. 1

19088930138. 2

19088930139. 3

19088930140. 4

Question Number : 101 Question Id : 1908897562 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The first fungal antibiotic discovered was

1. Streptomycin
2. Penicillin
3. Gentamycin
4. Griseofulvin

Options :

19088930141. 1

19088930142. 2

19088930143. 3

19088930144. 4

Question Number : 102 Question Id : 1908897563 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is used as herbicidal agent?

1. DDT
2. BHC
3. 2,4 - D
4. Chloroquine

Options :

19088930145. 1

19088930146. 2

19088930147. 3

19088930148. 4

Question Number : 103 Question Id : 1908897564 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Butachlor belongs to

1. Amide group
2. Sulfonyl urea group
3. Urea group
4. Pyridine group

Options :

19088930149. 1

19088930150. 2

19088930151. 3

19088930152. 4

Question Number : 104 Question Id : 1908897565 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is plant originated insecticide?

1. Pyrethrum
2. Permethrin
3. Cypermethrin
4. Imidacloprid

Options :

19088930153. 1

19088930154. 2

19088930155. 3

19088930156. 4

Question Number : 105 Question Id : 1908897566 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which pesticide is most persistent in environment?

1. Malathion
2. Dieldrin
3. Carbofuran
4. Indoxacarb

Options :

19088930157. 1

19088930158. 2

19088930159. 3

19088930160. 4

Question Number : 106 Question Id : 1908897567 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cobalt is a constituent of

1. Folic acid
2. Vitamin B 12
3. Niacin
4. Biotin

Options :

19088930161. 1

19088930162. 2

19088930163. 3

19088930164. 4

Question Number : 107 Question Id : 1908897568 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The nucleic acid base found in mRNA but not in DNA is

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

Options :

19088930165. 1

19088930166. 2

19088930167. 3

19088930168. 4

Question Number : 108 Question Id : 1908897569 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

α - D - Glucose + 1120 \rightarrow + 52.50 \leftarrow + 190 β D- glucose

For glucose, the above reaction represents

1. Optical isomerism
2. Mutarotation
3. Epimerisation
4. D and L isomerism

Options :

19088930169. 1

19088930170. 2

19088930171. 3

19088930172. 4

Question Number : 109 Question Id : 1908897570 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the diet of a diabetic patient, the recommended carbohydrate intake should preferably be in the form of

1. Monosaccharides
2. Dissaccharides
3. Polysaccharides
4. Oligosaccharides

Options :

19088930173. 1

19088930174. 2

19088930175. 3

19088930176. 4

Question Number : 110 Question Id : 1908897571 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ninhydrin with evolution of CO₂ forms a blue complex with

1. Peptide bond
2. Serotonin
3. α - Amino acid
4. Histamine

Options :

19088930177. 1

19088930178. 2

19088930179. 3

19088930180. 4

Question Number : 111 Question Id : 1908897572 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one is correctly matched?

1. Carbamates - malathion
2. Organophosphates - carbofuran
3. Pyrethroid - parathion
4. Organochlorine - endosulfan

Options :

19088930181. 1

19088930182. 2

19088930183. 3

19088930184. 4

Question Number : 112 Question Id : 1908897573 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Toxins exuded from the roots of plants into soil are called

1. Pyrethrins
2. Repellants
3. Rotenones
4. Phytoalexins

Options :

19088930185. 1

19088930186. 2

19088930187. 3

19088930188. 4

Question Number : 113 Question Id : 1908897574 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The chemical obtained from chrysanthemum that has insecticidal properties is

1. Pyrethrum
2. Pathogen
3. Parasite
4. Parathyroid

Options :

19088930189. 1

19088930190. 2

19088930191. 3

19088930192. 4

Question Number : 114 Question Id : 1908897575 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is major component of Bordeaux mixture?

1. Copper sulphate
2. Sodium chloride
3. Calcium chloride
4. Magnesium sulphate

Options :

19088930193. 1

19088930194. 2

19088930195. 3

19088930196. 4

Question Number : 115 Question Id : 1908897576 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one is the most effective and most commonly used repellent to control insect?

1. Rutegar-622
2. Deet (Di ethyl meta-toluamide)
3. Oil of citronella
4. Indalone

Options :

19088930197. 1

19088930198. 2

19088930199. 3

19088930200. 4

Question Number : 116 Question Id : 1908897577 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Nicotine belong to

1. Terpenoids
2. An alkaloids
3. Steroids
4. Carotenoids

Options :

19088930201. 1

19088930202. 2

19088930203. 3

19088930204. 4

Question Number : 117 Question Id : 1908897578 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Highly toxic insecticide, according to WHO classification, are coded as -

1. Red
2. Green
3. Yellow
4. Blue

Options :

19088930205. 1

19088930206. 2

19088930207. 3

19088930208. 4

Question Number : 118 Question Id : 1908897579 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Agrocin-84 is -

1. Antibiotic
2. Bacteriocin
3. Phenolic compound
4. Enzyme

Options :

19088930209. 1

19088930210. 2

19088930211. 3

19088930212. 4

Question Number : 119 Question Id : 1908897580 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Pendimethalin is used as

1. Insecticide
2. Herbicide
3. Fungicide
4. Acaricide

Options :

19088930213. 1

19088930214. 2

19088930215. 3

19088930216. 4

Question Number : 120 Question Id : 1908897581 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

For the effective control of early blight of potato, which fungicide is most suitable?

1. Zineb
2. Dithane M-45
3. Blitox-50
4. Difolatan

Options :

19088930217. 1

19088930218. 2

19088930219. 3

19088930220. 4