

National Testing Agency

Question Paper Name :	Environmental Sciences 23rd Sep 2020 Shift 2
Subject Name :	ENVIRONMENTAL SCIENCES
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Duration :	120
Total Marks :	480
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Environmental Sciences

Group Number :	1
Group Id :	71087064
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 :	710870190
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870190
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108707621 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030481. 1
71087030482. 2
71087030483. 3
71087030484. 4

Question Number : 2 Question Id : 7108707622 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

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

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

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

Options :

- 71087030485. 1
- 71087030486. 2
- 71087030487. 3
- 71087030488. 4

Question Number : 3 Question Id : 7108707623 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

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

Options :

- 71087030489. 1

71087030490. 2

71087030491. 3

71087030492. 4

Question Number : 4 Question Id : 7108707624 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030493. 1

71087030494. 2

71087030495. 3

71087030496. 4

Question Number : 5 Question Id : 7108707625 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

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

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

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

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

Options :

71087030497. 1

71087030498. 2

71087030499. 3

71087030500. 4

Question Number : 6 Question Id : 7108707626 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030501. 1
- 71087030502. 2
- 71087030503. 3
- 71087030504. 4

Question Number : 7 Question Id : 7108707627 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030505. 1
- 71087030506. 2
- 71087030507. 3
- 71087030508. 4

Question Number : 8 Question Id : 7108707628 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030509. 1
71087030510. 2
71087030511. 3
71087030512. 4

Question Number : 9 Question Id : 7108707629 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030513. 1
71087030514. 2
71087030515. 3
71087030516. 4

Question Number : 10 Question Id : 7108707630 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030517. 1

71087030518. 2

71087030519. 3

71087030520. 4

Question Number : 11 Question Id : 7108707631 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030521. 1

71087030522. 2

71087030523. 3

71087030524. 4

Question Number : 12 Question Id : 7108707632 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030525. 1
71087030526. 2
71087030527. 3
71087030528. 4

Question Number : 13 Question Id : 7108707633 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030529. 1
71087030530. 2
71087030531. 3
71087030532. 4

Question Number : 14 Question Id : 7108707634 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030533. 1
- 71087030534. 2
- 71087030535. 3
- 71087030536. 4

Question Number : 15 Question Id : 7108707635 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

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

Options :

- 71087030537. 1
- 71087030538. 2
- 71087030539. 3
- 71087030540. 4

Question Number : 16 Question Id : 7108707636 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030541. 1
- 71087030542. 2
- 71087030543. 3
- 71087030544. 4

Question Number : 17 Question Id : 7108707637 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030545. 1
- 71087030546. 2
- 71087030547. 3
- 71087030548. 4

Question Number : 18 Question Id : 7108707638 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030549. 1
- 71087030550. 2
- 71087030551. 3
- 71087030552. 4

Question Number : 19 Question Id : 7108707639 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

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

Options :

- 71087030553. 1
- 71087030554. 2
- 71087030555. 3
- 71087030556. 4

Question Number : 20 Question Id : 7108707640 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087030557. 1

71087030558. 2
71087030559. 3
71087030560. 4

Part B Core Natural Resource Management I

Section Id :	710870191
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870191
Question Shuffling Allowed :	Yes

**Question Number : 21 Question Id : 7108707641 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1**

The host plant of *Striga* is

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

Options :

71087030561. 1
71087030562. 2

71087030563. 3

71087030564. 4

Question Number : 22 Question Id : 7108707642 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The suitable mechanical measure in areas having mildly sloping land with high rainfall (> 800 mm) and relatively impermeable clayey soils is

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

Options :

71087030565. 1

71087030566. 2

71087030567. 3

71087030568. 4

Question Number : 23 Question Id : 7108707643 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A researcher wants to layout an experiment with four irrigation levels and three fertilizer dose levels. Which one of the following will be a suitable field plot design with main plot treatments?

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

Options :

71087030569. 1
71087030570. 2
71087030571. 3
71087030572. 4

Question Number : 24 Question Id : 7108707644 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Capillary water is held by the forces of

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

Options :

71087030573. 1
71087030574. 2
71087030575. 3
71087030576. 4

Question Number : 25 Question Id : 7108707645 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The phenomenon of heat evolution when dry soil is placed in water is known as

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

Options :

71087030577. 1
71087030578. 2

71087030579. 3

71087030580. 4

Question Number : 26 Question Id : 7108707646 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Most destructive form of precipitation is

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

Options :

71087030581. 1

71087030582. 2

71087030583. 3

71087030584. 4

Question Number : 27 Question Id : 7108707647 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

In case of fog, visibility is reduced to

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

Options :

71087030585. 1

71087030586. 2

71087030587. 3

71087030588. 4

Question Number : 28 Question Id : 7108707648 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The greenhouse gas exclusively of industrial origin is

1. CFC
2. N₂O
3. CO₂
4. NH₄

Options :

71087030589. 1
71087030590. 2
71087030591. 3
71087030592. 4

Question Number : 29 Question Id : 7108707649 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

If spacing of crop is 50 x 20 cm, then per hectare plant population will be

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

Options :

71087030593. 1
71087030594. 2
71087030595. 3
71087030596. 4

Question Number : 30 Question Id : 7108707650 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

IST is calculated based on longitude of

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

Options :

71087030597. 1

71087030598. 2

71087030599. 3

71087030600. 4

Question Number : 31 Question Id : 7108707651 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Average annual precipitation of earth is

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

Options :

71087030601. 1

71087030602. 2

71087030603. 3

71087030604. 4

Question Number : 32 Question Id : 7108707652 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

A mineral deficiency is likely to affect older leaves than younger leaves of a plant if

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

Options :

71087030605. 1
71087030606. 2
71087030607. 3
71087030608. 4

Question Number : 33 Question Id : 7108707653 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030609. 1
71087030610. 2
71087030611. 3
71087030612. 4

Question Number : 34 Question Id : 7108707654 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A chromosomal abnormality where a homologous pair of chromosomes are lacking from the normal diploid is called

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

Options :

71087030613. 1
71087030614. 2
71087030615. 3
71087030616. 4

Question Number : 35 Question Id : 7108707655 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In an irrigated field, crops lose water through

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

Options :

71087030617. 1
71087030618. 2
71087030619. 3
71087030620. 4

Question Number : 36 Question Id : 7108707656 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The wind which affects the weather but NOT climate is called

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

Options :

71087030621. 1
71087030622. 2
71087030623. 3
71087030624. 4

Question Number : 37 Question Id : 7108707657 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The superiority of F1 over the better parent is known as

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

Options :

71087030625. 1
71087030626. 2
71087030627. 3
71087030628. 4

Question Number : 38 Question Id : 7108707658 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Soil acidity develops by

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

Options :

- 71087030629. 1
- 71087030630. 2
- 71087030631. 3
- 71087030632. 4

Question Number : 39 Question Id : 7108707659 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The latest nutrient added to the list of essential elements is

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

Options :

- 71087030633. 1
- 71087030634. 2
- 71087030635. 3
- 71087030636. 4

Question Number : 40 Question Id : 7108707660 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Differences among the experimental units treated alike are known as

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

Options :

71087030637. 1

71087030638. 2

71087030639. 3

71087030640. 4

Question Number : 41 Question Id : 7108707661 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

If the organic carbon content of a soil is less than 0.5%, organic carbon status in the soil is

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

Options :

71087030641. 1

71087030642. 2

71087030643. 3

71087030644. 4

Question Number : 42 Question Id : 7108707662 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Which of the following soil structures has the highest hydraulic conductivity?

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

Options :

71087030645. 1
71087030646. 2
71087030647. 3
71087030648. 4

Question Number : 43 Question Id : 7108707663 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

At saturation capacity, the movement of water is

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

Options :

71087030649. 1
71087030650. 2
71087030651. 3
71087030652. 4

Question Number : 44 Question Id : 7108707664 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) focuses on

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

Options :

- 71087030653. 1
- 71087030654. 2
- 71087030655. 3
- 71087030656. 4

Question Number : 45 Question Id : 7108707665 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Colchicine is generally used for

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

Options :

- 71087030657. 1
- 71087030658. 2
- 71087030659. 3
- 71087030660. 4

Question Number : 46 Question Id : 7108707666 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A seed pretreatment recommended to break physiological dormancy in many forests seeds is to treat seeds with

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

Options :

71087030661. 1
71087030662. 2
71087030663. 3
71087030664. 4

Question Number : 47 Question Id : 7108707667 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is true of an ecosystem?

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

Options :

71087030665. 1
71087030666. 2
71087030667. 3
71087030668. 4

Question Number : 48 Question Id : 7108707668 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

When is the wildlife week celebrated in India?

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

Options :

71087030669. 1
71087030670. 2
71087030671. 3
71087030672. 4

Question Number : 49 Question Id : 7108707669 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

FACE experiments are concerned with

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

Options :

71087030673. 1
71087030674. 2
71087030675. 3
71087030676. 4

Question Number : 50 Question Id : 7108707670 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Inbreeding in self and cross pollinated plants leads to

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

Options :

71087030677. 1

71087030678. 2

71087030679. 3

71087030680. 4

Question Number : 51 Question Id : 7108707671 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which among the following is a resource conservation technique in terms of agricultural sustainability?

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

Options :

71087030681. 1

71087030682. 2

71087030683. 3

71087030684. 4

Question Number : 52 Question Id : 7108707672 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The concept of bio-drainage involves growing of certain plants that

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

Options :

71087030685. 1

71087030686. 2

71087030687. 3

71087030688. 4

Question Number : 53 Question Id : 7108707673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following soils has maximum capillarity?

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

Options :

71087030689. 1

71087030690. 2

71087030691. 3

71087030692. 4

Question Number : 54 Question Id : 7108707674 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

One cusec discharge of water is

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

Options :

71087030693. 1
71087030694. 2
71087030695. 3
71087030696. 4

Question Number : 55 Question Id : 7108707675 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The particles suspended in air are called

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

Options :

71087030697. 1
71087030698. 2
71087030699. 3
71087030700. 4

Question Number : 56 Question Id : 7108707676 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The repetitive growing of the same crop on the same land is called

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

Options :

71087030701. 1
71087030702. 2
71087030703. 3
71087030704. 4

Question Number : 57 Question Id : 7108707677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The time between the start of organic management and certification of crop is known as

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

Options :

71087030705. 1
71087030706. 2
71087030707. 3
71087030708. 4

Question Number : 58 Question Id : 7108707678 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The value of R^2 in regression analysis will be between

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

Options :

71087030709. 1
71087030710. 2
71087030711. 3
71087030712. 4

Question Number : 59 Question Id : 7108707679 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Smaze is

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

Options :

71087030713. 1
71087030714. 2
71087030715. 3
71087030716. 4

Question Number : 60 Question Id : 7108707680 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Barometer was invented in

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

Options :

71087030717. 1
71087030718. 2
71087030719. 3
71087030720. 4

Question Number : 61 Question Id : 7108707681 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Earth day falls on

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

Options :

71087030721. 1
71087030722. 2
71087030723. 3
71087030724. 4

Question Number : 62 Question Id : 7108707682 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087030725. 1
71087030726. 2
71087030727. 3
71087030728. 4

Question Number : 63 Question Id : 7108707683 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Doldrums are the zone of

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

Options :

71087030729. 1
71087030730. 2
71087030731. 3
71087030732. 4

Question Number : 64 Question Id : 7108707684 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Annual temperature range at equator is

1. 2 °C
2. 14 °C
3. 16 °C
4. 8 °C

Options :

71087030733. 1
71087030734. 2
71087030735. 3
71087030736. 4

Question Number : 65 Question Id : 7108707685 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Lines joining points of equal temperature on a map are called

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

Options :

71087030737. 1
71087030738. 2
71087030739. 3
71087030740. 4

Question Number : 66 Question Id : 7108707686 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Wind velocity is measured by

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

Options :

71087030741. 1
71087030742. 2
71087030743. 3
71087030744. 4

Question Number : 67 Question Id : 7108707687 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A soil with pH 3.2 is

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

Options :

71087030745. 1
71087030746. 2
71087030747. 3
71087030748. 4

Question Number : 68 Question Id : 7108707688 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The major constituent of biogas is

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

Options :

71087030749. 1
71087030750. 2
71087030751. 3
71087030752. 4

Question Number : 69 Question Id : 7108707689 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The study of periodic events of life cycle of a plant is called

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

Options :

71087030753. 1
71087030754. 2
71087030755. 3
71087030756. 4

Question Number : 70 Question Id : 7108707690 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following areas in India is classified as a biodiversity hotspot?

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

Options :

71087030757. 1

71087030758. 2

71087030759. 3

71087030760. 4

Part C Environmental Sciences

Section Id :	710870192
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870192
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108707691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Among the following greenhouse gas, which one has the lowest global warming potential?

1. CO₂
2. O₃
3. N₂O
4. CH₄

Options :

71087030761. 1
71087030762. 2
71087030763. 3
71087030764. 4

Question Number : 72 Question Id : 7108707692 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The basic concept of describing bioenergy as renewable resource is capturing:

1. functional and non-functional energy
2. electrons and CO₂ in biomass
3. microbial energy in biomass
4. solar energy and CO₂ in biomass

Options :

71087030765. 1
71087030766. 2
71087030767. 3
71087030768. 4

Question Number : 73 Question Id : 7108707693 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In nature, some of the microorganism can produce organic matter in the absence of sun light.
They are called

1. Heterotrophs
2. Autotrophs
3. Mix heterotrophs
4. Chemoautotrophs

Options :

71087030769. 1
71087030770. 2
71087030771. 3
71087030772. 4

Question Number : 74 Question Id : 7108707694 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The thermal decomposition of waste to energy under inert atmospheric conditions or in absence of O₂ is called

1. Pyrolysis
2. Gasification
3. Combustion
4. Degradation

Options :

71087030773. 1
71087030774. 2
71087030775. 3
71087030776. 4

Question Number : 75 Question Id : 7108707695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a major part of producer gas?

1. Hydrogen
2. Carbon monoxide
3. Nitrous oxide
4. Carbon dioxide

Options :

71087030777. 1

71087030778. 2

71087030779. 3

71087030780. 4

Question Number : 76 Question Id : 7108707696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The process of establishment of plants in a new area (immigrants) is known as

1. Nudation
2. Aggregation
3. Ecesis
4. Psammosis

Options :

71087030781. 1

71087030782. 2

71087030783. 3

71087030784. 4

Question Number : 77 Question Id : 7108707697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT considered the part of the single-channel energy flow model?

1. Herbivores
2. Producers
3. Carnivores
4. Decomposers

Options :

71087030785. 1
71087030786. 2
71087030787. 3
71087030788. 4

Question Number : 78 Question Id : 7108707698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

India signed Cartagena Protocol on Biosafety on

1. January 23, 2001
2. January 26, 2002
3. November 26, 2001
4. August 16, 2002

Options :

71087030789. 1
71087030790. 2
71087030791. 3
71087030792. 4

Question Number : 79 Question Id : 7108707699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In measurement of vitiation in data, the term uncertainty refers to

1. Mistake
2. Errors
3. Inaccuracy
4. Doubts

Options :

71087030793. 1
71087030794. 2
71087030795. 3
71087030796. 4

Question Number : 80 Question Id : 7108707700 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In carrying out a statistical test, if there is no difference (or association) between variables X and Y, it is referred to as

1. X-Y-Hypothesis
2. Null-Hypothesis
3. Single test-Hypothesis
4. Functional-Hypothesis

Options :

71087030797. 1
71087030798. 2
71087030799. 3
71087030800. 4

Question Number : 81 Question Id : 7108707701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Histogram and pie chart are used for plotting the distribution of

1. Double variables
2. Multi-dependent variables
3. Single variable
4. Non-functional variables

Options :

71087030801. 1
71087030802. 2
71087030803. 3
71087030804. 4

Question Number : 82 Question Id : 7108707702 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following fuels is known as oxygenated fuel?

1. CNG
2. Hydrogen
3. Ethanol
4. LPG

Options :

71087030805. 1
71087030806. 2
71087030807. 3
71087030808. 4

Question Number : 83 Question Id : 7108707703 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

According to MNRE, Government of India, a small micro-hydro power station has a production capacity of

1. Up to 1000 kW
2. Up to 500 kW
3. Up to 100 kW
4. 50 to 200 kW

Options :

71087030809. 1
71087030810. 2
71087030811. 3
71087030812. 4

Question Number : 84 Question Id : 7108707704 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The community which becomes stable and in equilibrium with the climate is known as

1. Pioneer community
2. Seral community
3. Climax community
4. Mixed community

Options :

71087030813. 1
71087030814. 2
71087030815. 3
71087030816. 4

Question Number : 85 Question Id : 7108707705 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

After separation of metals and grinding, the organic material is commonly placed in long piles called

1. Segregation
2. Reallocation
3. Windrows
4. Conditioning

Options :

71087030817. 1
71087030818. 2
71087030819. 3
71087030820. 4

Question Number : 86 Question Id : 7108707706 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Hazardous Waste (Management and Handling) Rules were enacted in the year

1. 1988
2. 1989
3. 1999
4. 1990

Options :

71087030821. 1
71087030822. 2
71087030823. 3
71087030824. 4

Question Number : 87 Question Id : 7108707707 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The Pyramid of Energy is considered as the most efficient representation of any ecosystem because it indicates

1. The rate of food flow through the food chain
2. The gross Energy of an Ecosystem
3. Numbers of standing crops
4. Species turnover is high in the Pyramid of Energy

Options :

- 71087030825. 1
- 71087030826. 2
- 71087030827. 3
- 71087030828. 4

Question Number : 88 Question Id : 7108707708 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The new Plastic Waste Management and Handling Rules to set up a regulatory framework for manufacture, usage and recycling of plastic bags were enacted in the year

1. 1999
2. 2003
3. 2009
4. 2011

Options :

- 71087030829. 1
- 71087030830. 2
- 71087030831. 3
- 71087030832. 4

Question Number : 89 Question Id : 7108707709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The processes of waste stabilization that are used for radioactive waste material is called

1. Solidification
2. Encapsulation
3. Compaction
4. Incineration

Options :

71087030833. 1
71087030834. 2
71087030835. 3
71087030836. 4

Question Number : 90 Question Id : 7108707710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In waste treatment process, incineration of waste involves heating at

1. 400-500°C in the presence of oxygen
2. 900-1000°C in the presence of oxygen
3. 400-500°C in the absence of oxygen
4. 900-1000°C in the absence of oxygen

Options :

71087030837. 1
71087030838. 2
71087030839. 3
71087030840. 4

Question Number : 91 Question Id : 7108707711 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

According to the UN-World Meteorological Organization, Geneva, the mean temperature of the Globe is around

1. 55.2 °F (12°C)
2. 57.2 °F (14 °C)
3. 61 °F (16 °C)
4. 65.2 °F (18 °C)

Options :

71087030841. 1
71087030842. 2
71087030843. 3
71087030844. 4

Question Number : 92 Question Id : 7108707712 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

During nuclear energy production, a neutron hits a uranium atom and splits it, releasing a tremendous amount of energy. The term used for the process is called

1. Nuclear fusion
2. Nuclear stimulation
3. Nuclear bombarding
4. Nuclear fission

Options :

71087030845. 1
71087030846. 2
71087030847. 3
71087030848. 4

Question Number : 93 Question Id : 7108707713 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following gases has the highest global warming potential?

1. CO₂
2. CH₄
3. Water vapours
4. SF₆

Options :

71087030849. 1
71087030850. 2
71087030851. 3
71087030852. 4

Question Number : 94 Question Id : 7108707714 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

BOD of the effluents discharge on land for irrigation should NOT exceed

1. 100 mg/L
2. 30 mg/L
3. 300 mg/L
4. 60 mg/L

Options :

71087030853. 1
71087030854. 2
71087030855. 3
71087030856. 4

Question Number : 95 Question Id : 7108707715 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

National institute of Disaster Management is situated at

1. New Delhi
2. Chennai
3. Kolkata
4. Mumbai

Options :

71087030857. 1
71087030858. 2
71087030859. 3
71087030860. 4

Question Number : 96 Question Id : 7108707716 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: A Greenhouse gas called methane is emitted from rice under waterlogged conditions

Reason R: This may be because of the aerobic condition in the soil

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 :

71087030861. 1
71087030862. 2
71087030863. 3

71087030864. 4

Question Number : 97 Question Id : 7108707717 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: The greenhouse gases trap heat from the atmosphere and are responsible for the greenhouse effect

Reason R: It happens because some of the infrared radiation is absorbed and re-emitted by greenhouse gasses

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 :

71087030865. 1

71087030866. 2

71087030867. 3

71087030868. 4

Question Number : 98 Question Id : 7108707718 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Lignocellulosic-biomass can be converted into liquid biofuel such as ethanol

Reason R: Lignocellulosic-biomass contains polymer of glucose in the form of cellulose and hemicellulose which can be readily fermented

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 :

71087030869. 1

71087030870. 2

71087030871. 3

71087030872. 4

Question Number : 99 Question Id : 7108707719 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Enhancement of carbon sequestration is found more in tropical region soils than temperate region soils

Reason R: Higher temperature of soil causes greater microbial activities compared to the soil having a low temperature

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 :

71087030873. 1

71087030874. 2

71087030875. 3

71087030876. 4

Question Number : 100 Question Id : 7108707720 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Sukinda valley in Orissa is listed among the world's ten most polluted places

Reason R: Sukinda valley has open-cast intensive chromite mining and high level of Cr(VI) in soil, water and forestland

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 :

71087030877. 1

71087030878. 2

71087030879. 3

71087030880. 4

Question Number : 101 Question Id : 7108707721 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange atmospheric layers in the order of height from the sea level

- A. Thermosphere
- B. Stratosphere
- C. Troposphere
- D. Mesosphere
- E. Exosphere

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

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

Options :

- 71087030881. 1
- 71087030882. 2
- 71087030883. 3
- 71087030884. 4

Question Number : 102 Question Id : 7108707722 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange the levels of ecological organization in increasing order of complexity

- A. Individual
- B. Ecosystem
- C. Population
- D. Community
- E. Biome

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

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

Options :

- 71087030885. 1
- 71087030886. 2
- 71087030887. 3
- 71087030888. 4

Question Number : 103 Question Id : 7108707723 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange sequentially, the steps in ethanol production process from lignocellulosic biomass

- A. Enzymatic saccharification
- B. Hydrolysis
- C. Distillation
- D. Fermentation

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

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

Options :

- 71087030889. 1
- 71087030890. 2
- 71087030891. 3
- 71087030892. 4

Question Number : 104 Question Id : 7108707724 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Primary air pollutants emitted into the air directly from the source include which of the following pollutant gases?

- A. Ozone
- B. SO_x
- C. APN
- D. PAN
- E. NO_x
- F. PAHs

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

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

Options :

- 71087030893. 1
- 71087030894. 2
- 71087030895. 3
- 71087030896. 4

Question Number : 105 Question Id : 7108707725 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The steps in tertiary treatment of wastewater effluent before its discharge into the rivers, lakes, and other water bodies include

- A. Grit removal
- B. Phosphorus removal
- C. Nitrogen removal
- D. Disinfections
- E. Fat and grease removal

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

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

Options :

- 71087030897. 1
- 71087030898. 2
- 71087030899. 3
- 71087030900. 4

Question Number : 106 Question Id : 7108707726 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following colour codes are correct?

- A. Blue - indicates the direct use of water for drinking and industrial use
- B. White - indicates atmospheric moisture
- C. Green - indicates water contained in soil and plants
- D. Yellow - indicates slightly contaminated
- E. Pink - indicates highly contaminated

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

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

Options :

- 71087030901. 1
- 71087030902. 2
- 71087030903. 3
- 71087030904. 4

Question Number : 107 Question Id : 7108707727 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following systems are associated with Ozone depletion process?

- A. Hg and Zn system
- B. N₂O system
- C. CFC₃ and CF₂Cl₂ system
- D. Fe and Mn system
- E. OH system

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

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

Options :

- 71087030905. 1
- 71087030906. 2
- 71087030907. 3
- 71087030908. 4

Question Number : 108 Question Id : 7108707728 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are true about the Clean Development Mechanism (CDM)?

- A. It is established under the Kyoto protocol
- B. It has a direct relation to GHG reduction commitments
- C. It is established under the Vienna convention
- D. It is also part of the Cartagena protocol
- E. It has limitations to control emissions only from fossil fuel use

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

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

Options :

- 71087030909. 1
- 71087030910. 2
- 71087030911. 3
- 71087030912. 4

Question Number : 109 Question Id : 7108707729 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Major features of restored ecosystems are

- A. Presence of all functional groups
- B. Resilience of ecosystem
- C. Absence of potential threat
- D. Kyoto protocol is related to ozone
- E. Biotic invasion

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

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

Options :

- 71087030913. 1
- 71087030914. 2
- 71087030915. 3
- 71087030916. 4

Question Number : 110 Question Id : 7108707730 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is/are **correct** about ozone?

- A. Ozone is a secondary pollutant
- B. Ozone is a threat to periurban agriculture
- C. The ozone hole was discovered by Joe C. Forman
- D. Kyoto protocol is related to ozone

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

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

Options :

- 71087030917. 1
- 71087030918. 2
- 71087030919. 3
- 71087030920. 4

Question Number : 111 Question Id : 7108707731 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Wildlife Protection Act	I. 1980
B. Forest Conservation Act	II. 1972
C. Air (Prevention & Control of Pollution) Act	III. 1974
D. Water (Prevention & Control of Pollution) Act	IV. 1981

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

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

Options :

71087030921. 1

71087030922. 2

71087030923. 3

71087030924. 4

Question Number : 112 Question Id : 7108707732 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Coral reef	I. Still water
B. Deltas	II. Saline water
C. Wetlands	III. Brackish water
D. Rivers	IV. Freshwater

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

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

Options :

71087030925. 1

71087030926. 2

71087030927. 3

71087030928. 4

Question Number : 113 Question Id : 7108707733 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. CITES	I. 1989
B. Basel Convention	II. 1973
C. Paris Agreement	III. 1997
D. Kyoto Protocol	IV. 2015

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

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

Options :

71087030929. 1

71087030930. 2

71087030931. 3

71087030932. 4

Question Number : 114 Question Id : 7108707734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. World Forest day	I. 11 July
B. World Population day	II. 22 March
C. World Water day	III. 16 September
D. Ozone day	IV. 21 March

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

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

Options :

71087030933. 1

71087030934. 2

71087030935. 3

71087030936. 4

Question Number : 115 Question Id : 7108707735 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Adhoc method	I. Give some measurement and describe the impact
B. Checklist method	II. Limited value for society
C. Overlay method	III. Used for screening and impact assessment, impact identification
D. Matrix method	IV. Act as an aid in screening sites or routes for impacts

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

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

Options :

71087030937. 1

71087030938. 2

71087030939. 3

71087030940. 4

Question Number : 116 Question Id : 7108707736 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: ISO 14000 is a practical tool for the companies and organization to manage their responsibility towards the environment

Statement II: A few parts of ISO 14000 were accepted by the Government of India and the Indian Chambers of Commerce.

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 :

71087030941. 1

71087030942. 2

71087030943. 3

71087030944. 4

Question Number : 117 Question Id : 7108707737 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: ISO/TS 14067: 2013 is very important for all the developing and developed nations

Statement II: It is related to greenhouse gases and carbon footprints of products and the guidelines for their quantification

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 :

71087030945. 1

71087030946. 2

71087030947. 3

71087030948. 4

Question Number : 118 Question Id : 7108707738 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The World Resources Institute (WRI) is a global research and non-profit organization established in 1982

Statement II: Headquarters shifted from Washington DC to Geneva, Switzerland

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 :

71087030949. 1

71087030950. 2

71087030951. 3

71087030952. 4

Question Number : 119 Question Id : 7108707739 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Most of the greenhouse gases have high residential period or higher life-span in atmosphere, they are less harmful.

Statement II: High residential period or higher life-span of greenhouse gases is not directly related to global warming potential.

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 :

71087030953. 1

71087030954. 2

71087030955. 3

71087030956. 4

Question Number : 120 Question Id : 7108707740 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Nitrate pollution in India is increasing day by day due to the application of higher doses of nitrogenous fertilizers

Statement II: Nitrate pollution is a leading cause of eutrophication and increasing algal bloom in water bodies near agricultural fields

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 :

71087030957. 1

71087030958. 2

71087030959. 3

71087030960. 4