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For the 3rd Week

Of

**June
2021**

(14th June to 19th June)

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1. Geography

Click [here](#) to watch the following questions on YouTube

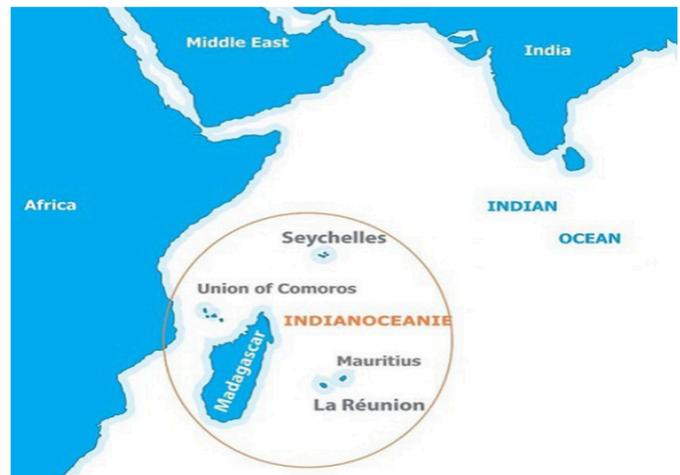
1. Identify the members of Indian Ocean Commission :

1. Comoros
 2. Madagascar
 3. Mauritius
 4. India
 5. Sri Lanka
- A. 1, 2 3 only
B. 1, 2, 4 and 5 only
C. 1, 2, 3 and 4 only
D. 2, 3 and 5 only

Answer: A

Explanation

- The IOC has five member countries. They are:
 - ✓ Comoros
 - ✓ Madagascar
 - ✓ Mauritius
 - ✓ Réunion (an overseas region of France)
 - ✓ Seychelles
- The IOC has seven observers. They are:
 - ✓ India
 - ✓ China
 - ✓ Japan
 - ✓ European Union
 - ✓ Sovereign Order of Malta
 - ✓ International Organisation of La Francophonie
 - ✓ United Nations
- India became an observer of the IOC in March 2020



- The Indian Ocean Commission is an intergovernmental organization that links African Indian Ocean nations.
- The IOC was created in 1982 in Port-Louis, Mauritius, and institutionalised in 1984 by the Victoria Agreement (Seychelles).
- It promotes peace and stability, maritime security, food security, environmental conservation, fisheries, climate change adaptation, the interests of island developing states, public health and cultural expression.

Note

- Indian Ocean Commission
- Indian Ocean Conference
- Indian Ocean Rim association

2. Which of the following are matched correctly?

1. Mukhtoshri Rice : West Bengal
2. Chak-Hao Rice : Assam
3. Pokkali Rice : Kerala
4. Bao-Dhan : Manipur

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

Answer: B

3. What is the correct sequence of occurrence of the following cities in South-East Asia as one proceeds from south to north? (2014)

1. Bangkok
2. Hanoi
3. Jakarta
4. Singapore

Select the correct answer using the code given below.

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

D. 4-3-2-1

Answer: C

Explanation

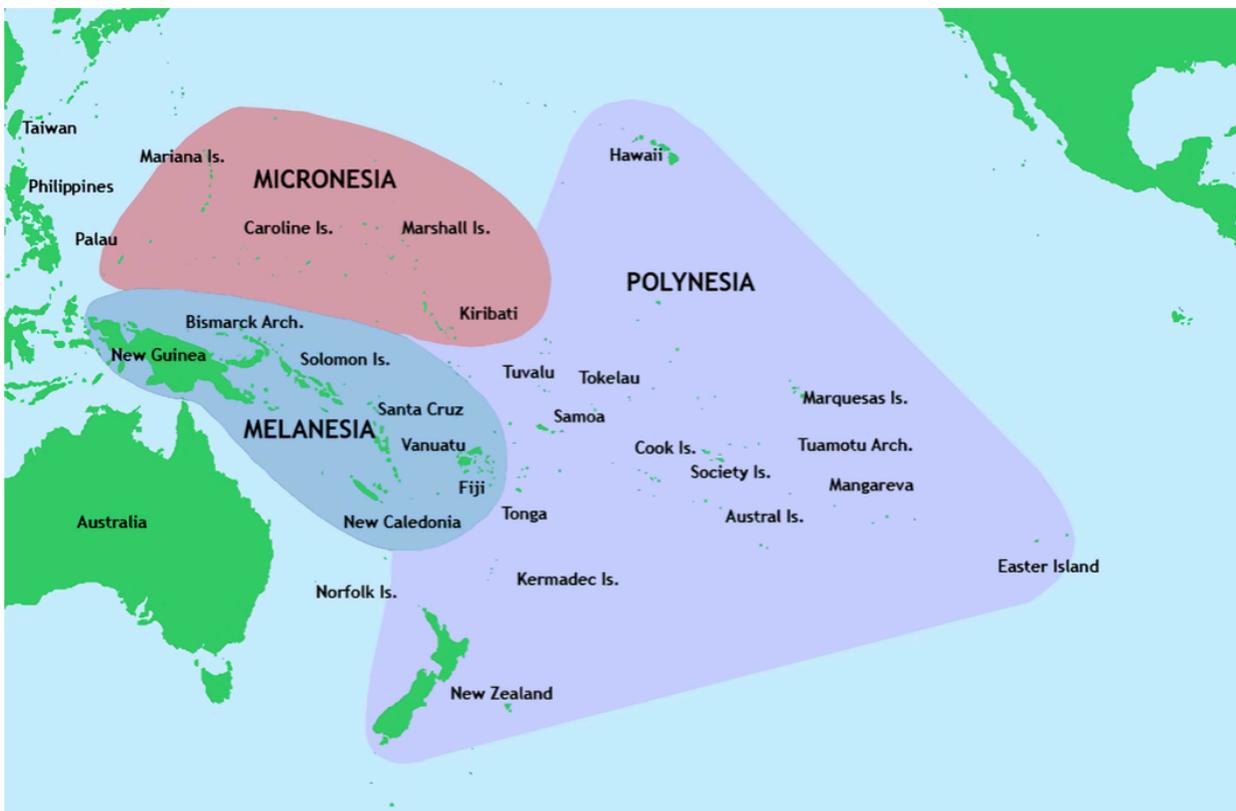


4. Micronesia is

- A. The lower extension of Arkan mountains in South-East Asia.
- B. The extension of West Asian Peninsular plateau.
- C. A sub-region of Oceania in Western Pacific Ocean.
- D. The northern region of Russia extending into Arctic Ocean.

Answer: C

Explanation



5. Which of the following are matched correctly?

1. Dzukou Valley : Disputed between Tripura and Nagaland
2. Kabar Tal Wetland : Bihar's first Ramsar Wetland
3. Katchall Islands : Nicobar Islands
4. Ramagundam : India's largest floating solar power Plant

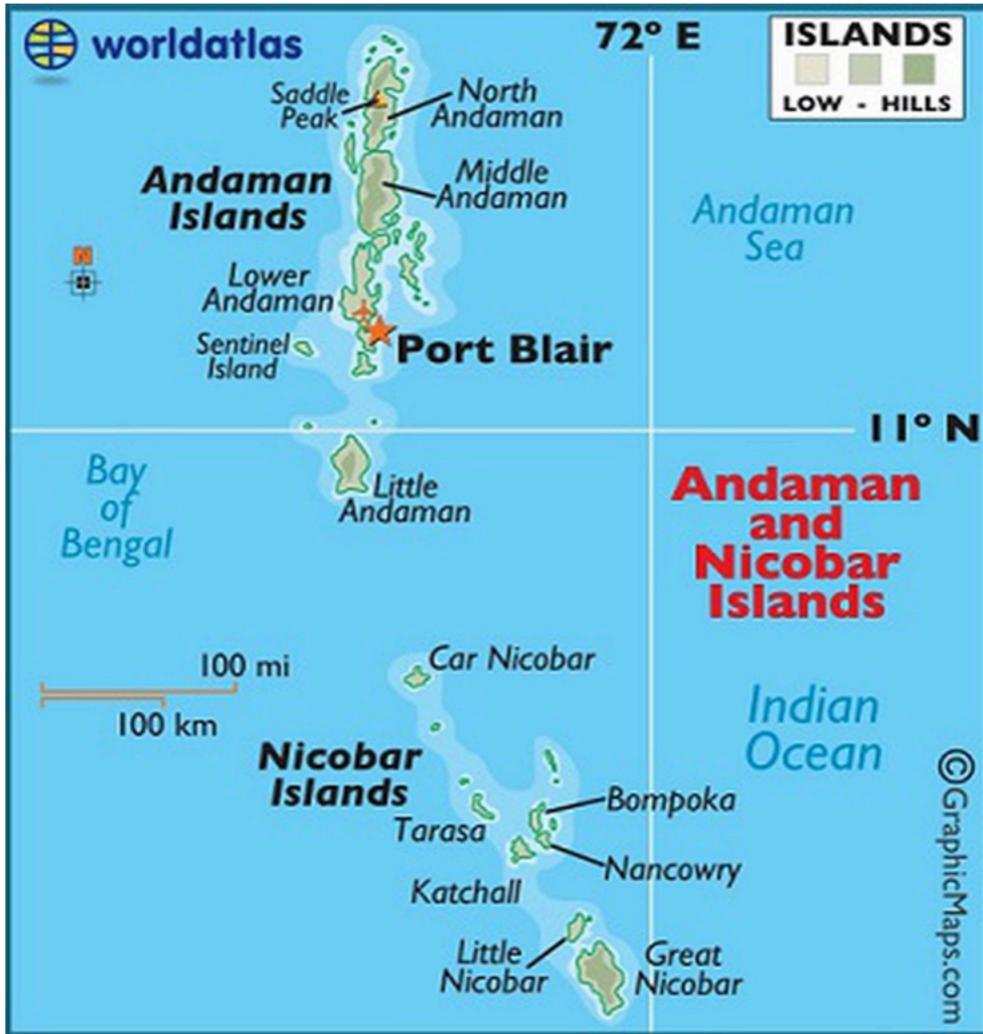
A. 1, 2 and 3 only

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

Answer: B

Explanation





2. Polity & Governance

Click [here](#) to watch the following questions on YouTube

1. Among various key words mentioned in Preamble, Fraternity which means sense of brotherhood, holds special importance. Which of the following constitutional provisions promotes fraternity among citizens of India?

1. Single Citizenship
2. Fundamental Duties
3. Fundamental Rights
4. Directive Principles of State Policy

- A. 1 only
- B. 1 and 2 only
- C. 1, 2 and 4 only
- D. All of the above

Answer: D

Explanation

- Fraternity in the sense of brotherhood follows not merely a top-down (Single citizenship and duties) but also a bottom-up (FRs and DPSPs) approach.
- While single citizenship and FDs imbibe within citizens the idea that they belong to one country and are obligated to collectively work for its welfare, thereby promoting a sense of brotherhood/fraternity;
- Fundamental rights and DPSPs by promoting both civil and socio-economic democracy seek to serve this end.
- For eg. despite the idea of single citizenship and FDs, if individuals were divided and discriminated due to the lack of abolition of untouchability or freedom of religion, the fraternity sought to be created by the State would be an entirely superficial and not organic one.
- Similarly, DPSPs by trying to create a just and egalitarian society, remove hierarchy, thereby serving the purpose of fraternity.

2. Article 1 of the constitution classifies territory of India into three categories. Taking this into consideration, what do you understand by one of the classification/category- 'Union of India'?

- A. It includes all states/ UTs or any other territory which Government of India might be holding at that point
- B. It includes all states and UTs of India
- C. It only includes States of India

D. It is not a territorial expression at all

Answer: C

Explanation

Article 3

- The territory of India shall comprise—
 - ✓ the territories of the States;
 - ✓ the Union territories specified in the First Schedule
 - ✓ such other territories as may be acquired. Union of India comprises only the states
- Territory of India includes states, UTs and territories that may be acquired by the Government of India at any future time.

3. Which of the following provision/s are common for both martial law and National emergency?

1. They can both be imposed on some specific area of the country
2. Both are mentioned in constitution of India i.e. have specific provisions dedicated to them

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Answer: A

Explanation

- Martial Law does not have any specific provision related to it in the constitution of India.
- Article 34 states, Parliament may by law indemnify any person in the service of the Union or of a State or any other person in respect of any act done by him in connection with the maintenance or restoration of order in any area within the territory of India where martial law was in force or validate any sentence passed, punishment inflicted, forfeiture ordered or other act done under martial law in such area
- Martial law has never been imposed in India, post-independence till date.

4. Which of these cases had judgments pertaining to the Preamble as a part of the Constitution?

1. Berubari Union case
2. Kesavananda Bharti case
3. LIC of India case

- A. 1 and 2 only

- B. 2 only
- C. 2 and 3 only
- D. All of the above

Answer: D

Explanation

- In Berubari Case (1960), Supreme Court had held that Preamble is NOT a part of the constitution
- But later in Kesavanada Bharati Case (1973), the Supreme Court gave an elaborate verdict which inter alia said that Preamble is Part of Constitution and is subject to the amending power of the parliament as any other provisions of the Constitution, provided the basic structure of the constitution is not destroyed.
- The Kesavananda Bharti position was upheld in the LIC of India case.

5. Identify the correct statement(s) about Speaker

1. When a resolution for the removal of the Speaker is under consideration of the House, he cannot be present in the House
 2. He can vote on the issue of his removal
 3. He cannot vote when he is Presiding over the House
- A. 1 and 2 only
 - B. 2 and 3 only
 - C. 1 and 3 only
 - D. All of the above

Answer: B

Explanation

- When a resolution for the removal of the Speaker is under consideration of the House, he cannot preside at the sitting of the House, though he may be present.
- He can speak and take part in the proceedings of the House at such a time and vote in the first instance, though not in the case of an equality of votes.
- In regular matters, he does not vote in the first instance. But he can exercise a casting vote in the case of a tie.
- In other words, only when the House is divided equally on any question, the Speaker is entitled to vote. Such vote is called casting vote, and its purpose is to resolve a deadlock.

3. Environment

Click [here](#) to watch the following questions on YouTube

1. The acidification of ocean is increasing. Why is this phenomenon a cause of concern?

1. Coral reef may be adversely affected.
2. The population of jellyfishes will drastically decrease.
3. Impair digestion of fish species

Select the correct answer using codes given below:

- A. 1 and 2 only
- B. 1 and 3 only
- C. 2 and 3 only
- D. All of the above

Answer: B

Explanation



2. Ozone depletion is a cause of concern. Which of the following condition responsible for ozone depletion in polar areas:

1. Low polar temperature
2. Formation of Polar vortex
3. Polar stratospheric clouds
4. Denitrification

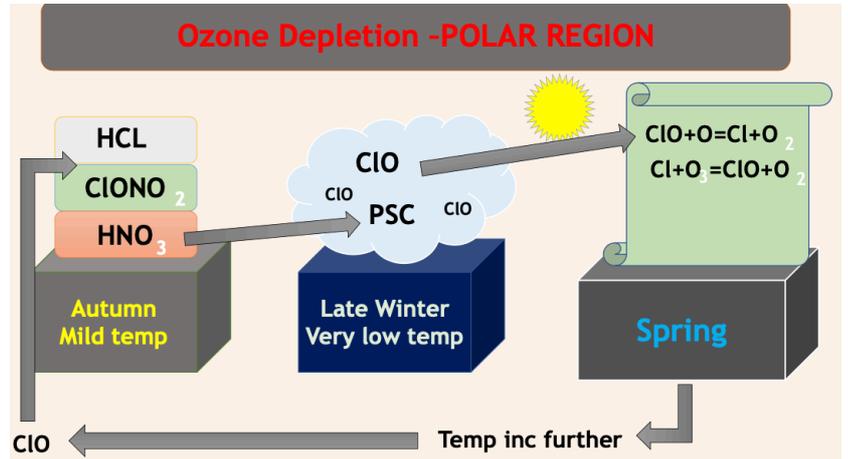
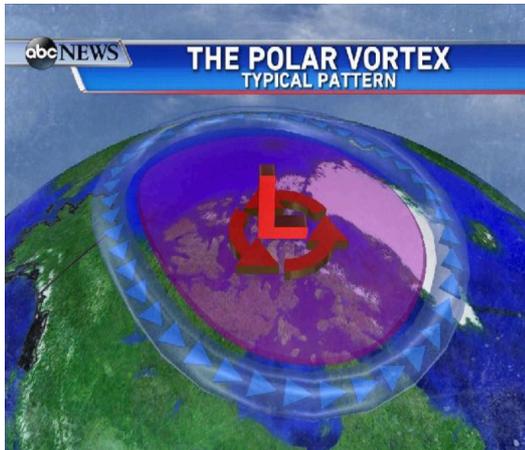
Select the correct answer using codes Codes given below:

- A. 1 and 2 only

- B. 1, 2 and 3 only
- C. 2, 3 and 4 only
- D. All of the above

Answer: D

Explanation



3. The term 'solidarity and just transition Silesia' was in news recently is related to:

- A. Global stocktake
- B. Biofuel policy
- C. Brexit
- D. Workers

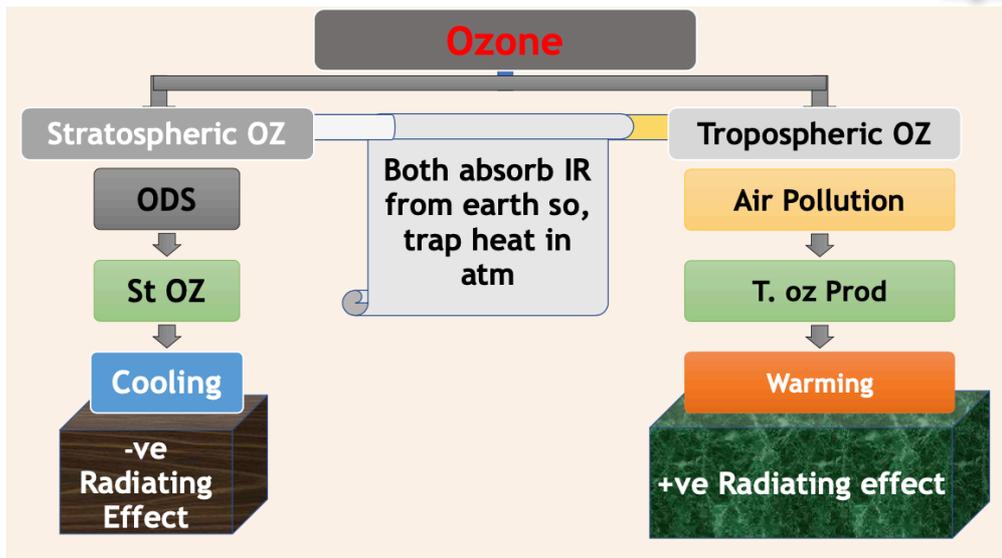
Answer: D

4. Which among the following is an incorrect statement

- A. Both stratospheric and tropospheric ozone absorb Infrared radiation.
- B. Depletion of stratospheric ozone lead to cooling effect.
- C. Tropospheric ozone causing warming effect
- D. Both tropospheric and stratospheric ozone are principally responsible for present day climate change.

Answer: D

Explanation



5. Which of the following is included in India's REDD+ activities

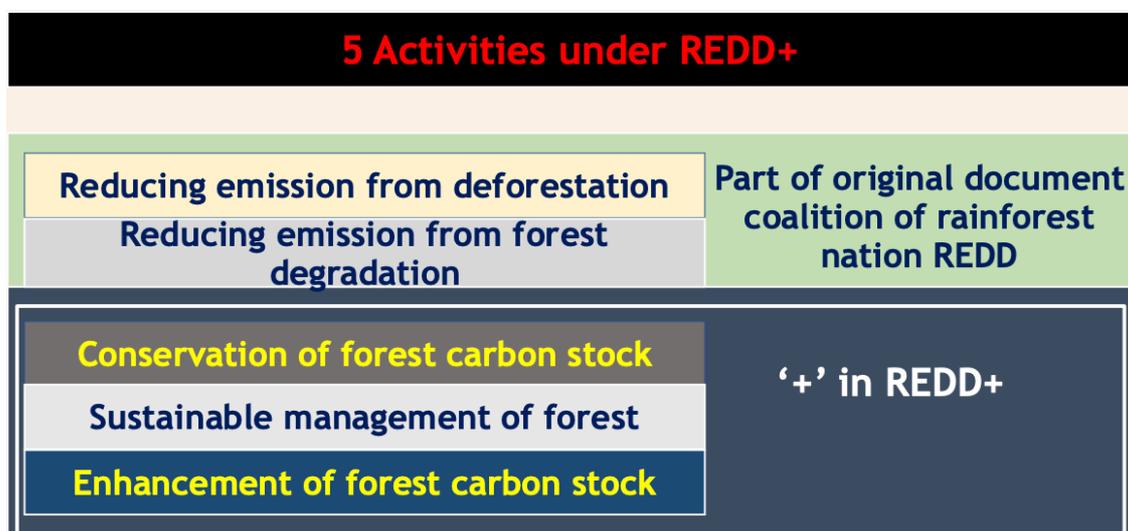
1. Grassland
2. Forest area > 1 ha & 10% canopy
3. All forest irrespective of coverage
4. Mangroves

Select the correct answer using codes given below

- A. 1 and 2 only
- B. 2 only
- C. 2, 3 and 4 only
- D. All of the above

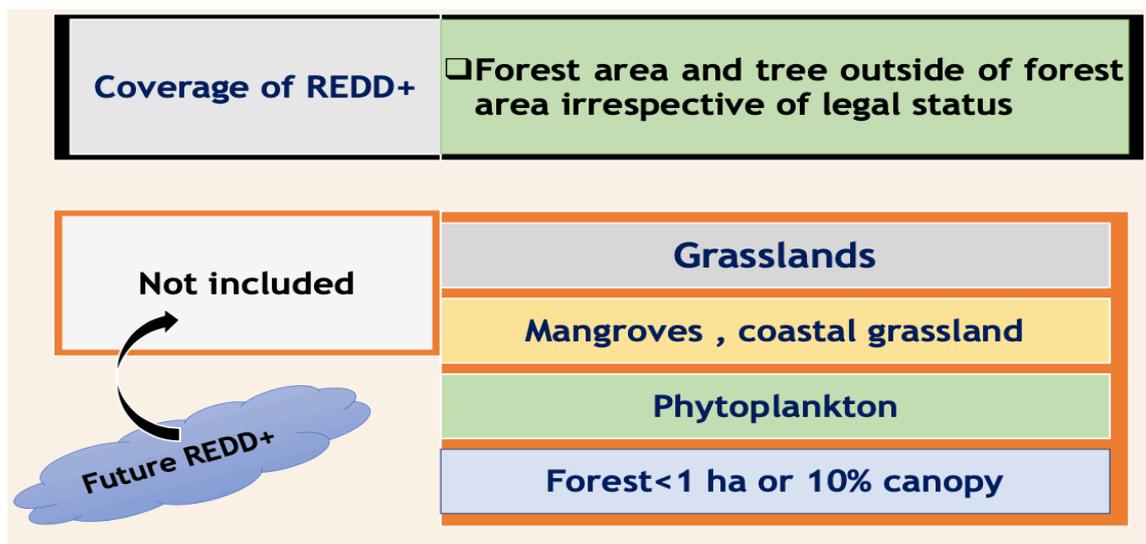
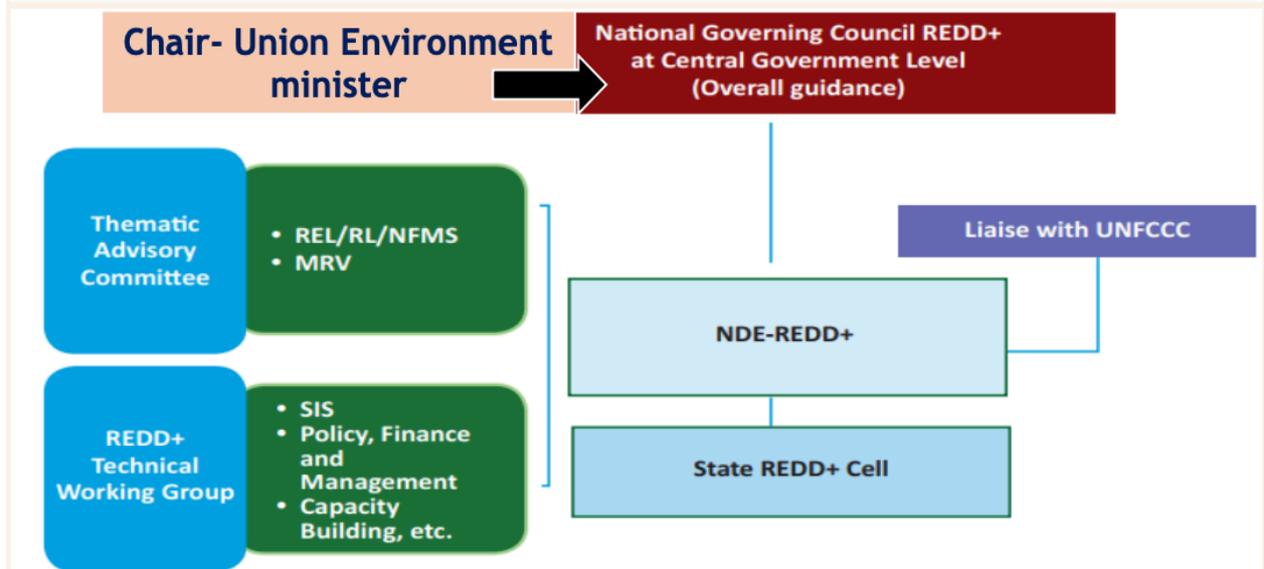
Answer: B

Explanation





India's institutional mechanism for REDD+ implementation



4. Science & Technology

Click [here](#) to watch the following questions on YouTube

1. Consider the following statements in context to gluten

1. It makes the dough elastic and gives bread the ability to rise during baking
2. Gluten free diet can give huge boost to the performance of athletes

Select the correct answer code:

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None of the above

Answer: A

Explanation

- Gluten is a family of proteins found in grains, including wheat, rye, spelt, and barley. Of the gluten-containing grains, wheat is by far the most common.
- The two main proteins in gluten are glutenin and gliadin.
 - ✓ Gliadin is responsible for most of the adverse health effects of gluten
 - ✓ When flour mixes with water, the gluten proteins form a sticky network that has a glue-like consistency.
 - ✓ This glue-like property makes the dough elastic and gives bread the ability to rise during baking. It also provides a chewy, satisfying texture.
- Technology for Extraction of Gluten from Wheat Dough (ICAR)
 - ✓ Bajra, maize, jowar (sorghum), ragi and other millets contain comparable levels of protein and more vitamins, minerals, crude fibre and other nutrients than wheat. But they don't have any gluten proteins, which results in poor dough quality.

2. Consider the following statements in context to Artificial sweeteners

1. Consumption of Artificial sweeteners can cause side effects like cancer
2. They are safe choice for people with diabetes as they are less sweeter than natural sugar.
3. Recently FSSAI banned artificial sweeteners in foods products

Select the correct answer code:

- A. 1 only
- B. 2 and 3 only

- C. 1 and 3 only
- D. All of the above

Answer: A

Explanation

- Natural sweeteners like sucrose and fructose give sweetness to a substance, but they also contain calories which can be harmful to humans when taken in extra quantity.
- Artificial sweeteners are substances that are used as substitutes for natural sugar (sucrose), they contain low calories. They are many times sweeter than regular sugar, so they are also referred to as intense sweeteners
- Saccharin: It was discovered in 1879 and is considered as the oldest non-nutritive sweetener. Sucrose is about 300 times less sweet than saccharin, but it has a bitter aftertaste.
- Aspartame: In 1879 Aspartame was discovered and it was found that it is approximately 200 times sweeter than sugar
- Acesulfame potassium
 - ✓ Acesulfame is often used in combination with other sweeteners and is approximately 200 times sweeter than table sugar
- Sucralose
 - ✓ It is approximately 600 times sweeter than table suga
- Neotame
 - ✓ It is 7,000 to 13,000 times sweeter than table sugar and is 30 to 60 times sweeter than aspartame
- Other
 - ✓ Isomaltulose

3. Consider the following statements in context to LDL(Low density lipoprotein) and HDL (High density lipoprotein)

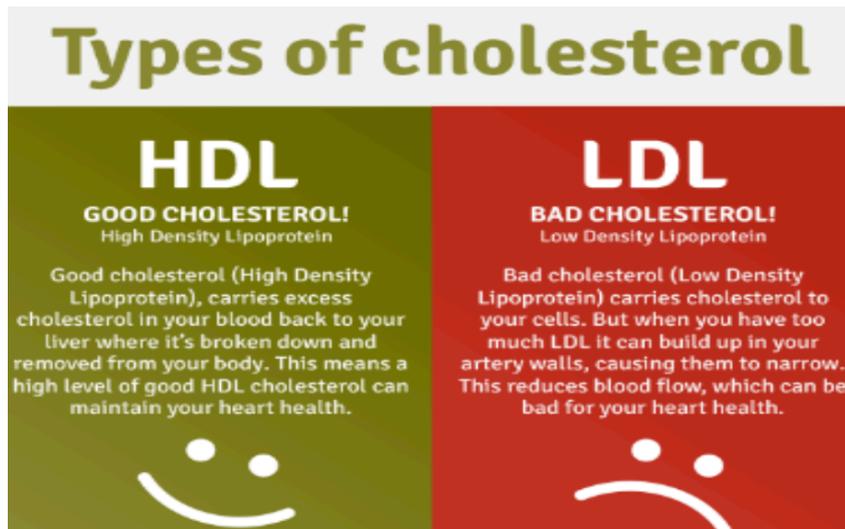
1. Trans fats decreases LDL and increases HDL in body
2. HDL is a bad cholesterol whereas LDL is a good cholesterol.

Select the correct answer code:

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None of the above

Answer: D

Explanation



4. Consider the following statements in context to pasteurized milk.

1. It is a process of heating milk to a certain temperature before it's quickly cooled back to its original temperature
2. It extend shelf life of product as it kills all bacteria in the raw milk.

Select the correct answer code:

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None of the above

Answer: A

Explanation

	Pasteurization	Sterilization
Definition	Pasteurization is the process of heating liquid to a specific temperature for a specific time period to reduce microbial growth.	Sterilization is the process of eliminating all bacterial growth from various different objects.
Process	Heat liquid to a set temperature below boiling point and then cool quickly	Heat or chemicals used to kill all various types of bacteria
Different types	High-temperature, short-time (HTST) and Ultra-high temperature processing (UHT)	Applying heat, irradiation, chemicals and applying high pressure
Taste	Taste of the food remains the same	Alters the taste of the food
Eliminates	Some microbial bacteria that stops growth	All various types of microbial growth including bacteria, fungi, viruses
Uses	Liquids, Food	Food, Medical, Cleaning,

5. Consider the following statements

1. Bio-fortification increases the nutritional value of foods by adding trace amounts of micronutrients to foods during processing
2. Golden rice obtained through bio-fortification of Beta carotene

Select the correct answer code:

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None of the above

Answer: B

Explanation

- Bio-fortification has the increased nutritional micronutrient content embedded in the crop being grown.
- Food fortification increases the nutritional value of foods by adding trace amounts of micronutrients to foods during processing.

