

IASbaba's Daily Prelims Test [Day 35]

Topic- Science & Tech, Eco-Survey and Current Affairs

1. Which of the following statement is not true for organic manure?

1. It enhances water holding capacity of soil.
2. It has a balance of all plant nutrients.
3. It provides humus to soil.
4. It improves texture of soil

Solution- 2

Self explanatory. NCERT- class 8th, chapter -1

2. Read the statements given below.

1. Seeds require moisture for germination.
2. Plants can absorb nutrients mostly in dissolved form.
3. Irrigation protects crops from both frost and hot air currents.
4. Irrigation improves soil texture.

Choose the combination of statements which indicate the need to irrigate crops.

1. 1, 2 and 3
2. 2, 3 and 4
3. 1, 2 and 4
4. 1, 2, 3 and 4

Solution- 1

4 is wrong. Irrigation has no relation with texture of the soil.

NCERT- class 8th, chapter -1

3. Given below are statements about the effects of weeds on crop plants.

1. They interfere in harvesting.
2. They help crop plants to grow healthily.
3. They compete with crop plants for water, nutrients, space and light.
4. They affect plant growth.

Choose the correct combination of statements.

1. 1, 3 and 4
2. 3 only
3. 3 and 4
4. 1, 2, 3 and 4

Solution- 1

How will weed help crop plants grow healthily? ☺ Eliminate it and answer is 1

NCERT- class 8th, chapter -1

4. Consider the following diseases

1. Malaria
2. TB
3. Cold Cough
4. Chicken Pox

Which of them are NOT caused by Virus?

1. 2, 3 and 4
2. 1 and 2
3. 1, 3 and 4
4. 3 and 4

Solution- 2

Cold Cough and Chicken pox are caused by Virus. Malaria by Protozoans and TB is caused by Bacteria

NCERT- class 8th, chapter -2

5. Micro-organisms around us are useful as well as harmful for us. In this light consider the following statements

1. They can increase the fertility of the soil
2. They helps in nitrogen fixation
3. They spoil our food hence not used as food additives

Select the Wrong statement/s

1. 1 and 3
2. Only 3
3. Only 2
4. 1, 2 and 3

Solution- 2

Some bacteria and blue green algae are able to fix nitrogen from the atmosphere to enrich soil with nitrogen and increase its fertility. These microbes are commonly called biological nitrogen fixers.

Many microorganisms derived substances are used as food additives and for fermentation purposes like Bakers Yeast.

NCERT- class 8th, chapter -2

6. Given below are events that lead to pregnancy and development of embryo.

1. Fertilization of egg
2. Maturation of egg
3. Release of egg
4. Embedding of embryo in thickened uterine wall.

Which of the following options gives the correct order of sequence in which they occur?

1. 1, 2, 3, 4
2. 2, 1, 3, 4
3. 1, 4, 2, 3
4. 2, 3, 1, 4

Solution- 4

NCERT-8th, chapter 10

7. Match items in List A with the items of list B.

List A

1. Nylon
2. PET
3. Rayon
4. Thermosetting plastics
5. Teflon

List B

- (i) non-stick coating
- (ii) electric switches
- (iii) parachutes
- (iv) polyester
- (v) artificial silk

Code

1. 1-iii, 2-iv, 3-v, 4-ii, 5-i
2. 1-i, 2-ii, 3-iii, 4-iv, 5-v
3. 1-ii, 2-i, 3-iv, 4-v, 5-iii
4. 1-iv, 2-iii, 3-v, 4-ii, 5-i

Solution- 1

NCERT-Class 8th, chapter 3

8. Consider the following

1. paraffin wax
2. petrol
3. lubricating oil
4. coke
5. Bitumen

Which of the above is not a constituent of petroleum?

1. 3, 4 and 5
2. 4 and 5
3. Only 4
4. 1 and 4

Solution- 3

NCERT-Class 8th, chapter 5

9. Choose the correct statement about inflammable substances from the following.

They have:

1. Low ignition temperature and cannot catch fire easily.
2. High ignition temperature and can catch fire easily.
3. Low ignition temperature and can catch fire easily.
4. High ignition temperature and cannot catch fire easily

Solution- 3

NCERT-Class 8th, chapter 6

10. In the list of animals given below, Hen is the odd one out.

Human Being, Cow, Dog, Hen

The reason for this is

1. It undergoes internal fertilisation.
2. It is oviparous.
3. It is viviparous.
4. It undergoes external fertilisation.

Code

1. 1, 2 and 4
2. Only 3
3. Only 2
4. 1 and 2

Solution- 3

Oviporous- Lay Eggs. Hens also undergo internal fertilization as others but question asked for odd reason.

NCERT-Class 8th, chapter 9

11. Consider the following statements

1. The cumulative global CO₂ emission of China has surpassed India and EU.
2. Indian cumulative global CO₂ emission is close to China but less than USA
3. The cumulative global CO₂ emission of USA and India when combined is less than rest of the world.

Select the Wrong statement/s

1. 1, 2 and 3
2. 2 and 3
3. 1 and 2
4. None

Solution- 3

Cumulative Global CO₂ emission

USA- 21.2%

China- 10.7%

India-2.8%

EU- 18.4%

12. World is all set to include New Sustainable Development Goals (SDG's) by the end of 2015. Consider the following statements regarding this

1. It has the element of United Nations Convention to Combat Desertification (UNCCD)
2. It is based on Agenda-21
3. India's Total Sanitation Program and Swachh Bharat do not come under new set of targets of SDG's
4. There is no mention of tackling tobacco control and illegal drug trafficking

Which of the above statement/s is/are TRUE?

1. 1 and 2
2. 1, 2 and 3
3. 2 and 4
4. 1, 2, 3 and 4

Solution- 1

3 and 4 are wrong. Read all the 17 Goals properly.

13. Consider the following

1. Tropospheric Ozone
2. Sulphur dioxide
3. CO
4. CO₂
5. Water vapour
6. Methane
7. Nitrous oxide

Which of the above are Short Lived Green House Gases?

1. 1, 2, 3, 6 and 7
2. 2, 3, 5, 6 and 7
3. 1, 2, 3 and 5
4. 2, 3, 5 and 7

Solution- 3

Short-lived gases (e.g., sulphur dioxide and carbon monoxide) are chemically reactive and generally removed by natural oxidation processes in the atmosphere, by removal at the surface or by washout in precipitation; their concentrations are hence highly variable. Ozone is a significant greenhouse gas that is formed and destroyed by chemical reactions involving other species in the atmosphere.

The amount of water vapor in the atmosphere exists in direct relation to the temperature. If you increase the temperature, more water evaporates and becomes vapor, and vice versa. So when something else causes a temperature increase (such as extra CO₂ from fossil fuels), more water evaporates. Then, since water vapor is a greenhouse gas, this additional water vapor causes the temperature to go up even further—a positive feedback. The other factor to consider is that water is evaporated from the land and sea and falls as rain or snow all the time. Thus the amount held in the atmosphere as water vapour varies greatly in just hours and days as result of the prevailing weather in any location. So even though water vapour is the greatest greenhouse gas, it is relatively short-lived.

https://www.ipcc.ch/publications_and_data/ar4/wg1/en/tssts-2-1.html

14. India is moving from non-renewable source of energy to renewable energy as evident from aggressive policies for the same. In this light consider the following statements

1. The contribution of Solar Energy is dominant in overall renewable energy sector of India.
2. Wind Energy dominates the sector followed by solar, biomass and hydro-power

Select the correct code/s

1. Only 1
2. Only 2
3. Both
4. None

Solution- 4

Wind Energy dominates with 66% of installed capacity followed by Biomass, Hydro and solar

15. India has established National Adaptation Fund following the international norm of Adaptation Fund under Climate Change Agreement. Consider the following statements regarding this

1. The Adaptation Fund was established in 2007 at the 7th COP of UNFCCC.
2. The Adaptation Fund is financed with a share of proceeds from the Joint Implementation Mechanism (JIM) project activities and other sources of funding.
3. The Industrial Development Bank of India (IDBI) is India's National Implementing Entity (NIE) for the Adaptation Fund created under the UNFCCC.

Select the WRONG statement/s

1. 1 and 2
2. 1 and 3
3. 2 and 3
4. 1, 2 and 3

Solution- 4

The Adaptation Fund was established in 2001 but launched in 2007. It proceeds from Clean Development Mechanism (CDM) and NABARD is India's National Implementing Entity not IDBI