



INSIGHTSIAS

SIMPLIFYING IAS EXAM PREPARATION

INSTA 75 DAYS REVISION PLAN FOR UPSC CSE PRELIMS 2024

INSTA TEST: DAY - 26

SUBJECT : AGRICULTURE



1. Consider the following statements regarding Conservation Tillage:

1. It helps reduce soil erosion and improves soil structure by leaving crop residues on the field.
2. It can enhance soil organic matter content, thereby aiding carbon sequestration in the soil.
3. It completely eliminates the need for herbicides in crop cultivation.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

2. With reference to Agroforestry, consider the following statements:

1. Agroforestry integrates trees or shrubs with crops and/or livestock on the same land.
2. It enhances soil fertility and biodiversity, and can help sequester carbon from the atmosphere.
3. It involves planting only fruit-bearing trees alongside agricultural crops.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 only
- (d) 1, 2 and 3

3. Consider the following statements about Cover Cropping:

1. Cover crops are grown primarily to protect and enrich the soil rather than for direct economic harvest.
2. Using cover crops can help prevent soil erosion, conserve soil moisture, and improve soil fertility.
3. In general, cover cropping tends to deplete soil nutrients and is therefore avoided in sustainable farming.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two

- (c) All three
- (d) None

4. How many of the following statements is/are correct regarding vertical farming?

1. Vertical farming cultivates crops in stacked layers or vertically inclined surfaces, often using controlled environment conditions.
2. Vertical farms typically use soil as the growing medium and rely primarily on natural sunlight for plant growth.
3. Vertical farming can achieve higher productivity per unit of land and use significantly less water than conventional field farming.

Select the correct answer using the codes given below:

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

5. How many of the following statements about hydroponic farming is/are correct?

1. Hydroponics is a technique of cultivating plants without soil, using nutrient-rich water solutions to feed the plants.
2. Hydroponic systems generally require much more water than conventional soil-based farming, due to the constant water circulation.
3. Aquaponics is a variant of hydroponics where plant cultivation is combined with fish farming, creating a mutually beneficial system.

Select the correct answer using the codes given below

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

6. The Global Agriculture and Food Security Program (GAFSP) is an international mechanism often mentioned in context of financing food security. Which of the following

statements is/are correct regarding GAFSP?

1. GAFSP is a multilateral financing partnership dedicated to supporting agricultural development and food security in the world's poorest countries.
2. It was launched by the Group of 20 (G20) nations in the wake of the 2007–08 global food price crisis.
3. India is one of the contributing donor countries to the GAFSP fund.

- (a) 1 and 2 only
(b) 1 and 3 only
(c) 2 only
(d) 1, 2 and 3

7. Regarding the international organization Rainforest Alliance, which of the following statements is/are correct?

1. The Rainforest Alliance is an international non-profit organization that works at the intersection of business, agriculture, and forests to promote sustainable land use.
2. It provides a globally recognized certification seal for products (like coffee, tea, cocoa, and bananas) that are produced using sustainable practices.
3. The Rainforest Alliance was involved in founding the Forest Stewardship Council (FSC) and has pioneered sustainable forestry certification.

- (a) 1 and 2 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3

8. What is "1000 Landscapes for 1 billion People" (1000L), often seen in discussions of global sustainable development?

1. It is a global initiative that aims to support integrated landscape management and restoration in 1000 landscapes worldwide.
2. The goal of the initiative is to improve ecosystems and livelihoods for 1 billion people by 2030 through sustainable land-

scape solutions.

3. It is led by a coalition of environmental NGOs, research organizations, and community groups, with EcoAgriculture Partners being a key convener.

Which of the above statements is/are correct?

- (a) 1 and 2 only
(b) 2 only
(c) 3 only
(d) 1, 2 and 3

9. The Agriculture Innovation Mission for Climate has been in the news. How many of the following statements is/are correct about AIM for Climate?

1. AIM for Climate is a joint initiative launched by the United States and the United Arab Emirates to boost innovation in climate-smart agriculture.
2. It was officially announced during the UN Climate Change Conference (COP26) in 2021.
3. India was one of the founding partners of AIM for Climate at its launch in 2021.

Select the correct answer using the codes given below

- (a) Only one
(b) Only two
(c) All three
(d) None

10. Which of the following statements about vermicomposting is correct?

- a) Vermicomposting relies on microorganisms exclusively to decompose organic waste.
- b) Earthworms used in vermicomposting primarily feed on inorganic materials.
- c) The process results in the production of vermicast, which is rich in nutrients beneficial for plant growth
- d) Vermicomposting significantly increases the presence of heavy metals in the soil.

11. Consider the following statements regarding National Mission on Natural Farming:

1. It has been launched as a central sector

scheme for North Eastern states for a period of 5 years.

2. It will be implemented in 15000 clusters in Gram Panchayats with an aim to target 1 crore farmers by 2026.
3. Under its Natural Farming Model Demonstration Farms are to be established at Krishi Vigyan Kendras to train willing farmers.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

12. Consider the following statements regarding Pradhan Mantri Matsya Sampada Yojana:

1. Under it 100 coastal fisherman villages near coastline will be developed as Climate Resilient Coastal Fishermen Villages.
2. It aims to enhance per capita fish consumptions in the country.
3. Under the scheme private investment and entrepreneurship in fishery sector will be promoted.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

13. Consider the following statements:

1. AgriSURE is a capital fund with contributions from the National Bank for Agriculture and Rural Development and FAO.
2. AgriSURE has been registered with SEBI as an Alternative Investment Fund.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

14. Consider the following statements:

1. Turmeric is a tropical crop native to the Indian subcontinent and Southeast Asia.
2. Curcumin is responsible for the yellow colour and anti-inflammatory and anti-microbial properties of turmeric.
3. The National Turmeric Board has been established under the Ministry of AYUSH to promote its medicinal properties.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 2 only

15. Which of the following best describes the Anna Chakra Initiative?

- (a) An initiative for fortification of food grains
- (b) A tool to streamline Public Distribution System
- (c) An agricultural method in which nutrients are added that promote plant growth as well as replenish soil
- (d) An initiative to promote natural farming

16. The INR Konnect Platform is related to:

- (a) Enhancement of rubber production in India
- (b) Platform for export of by-products of coconut industry
- (c) Export of handmade bamboo products
- (d) Promotion of Indian coffee varieties

17. Consider the following statements:

1. The World Organisation for Animal Health (WOAH) is responsible for preparing Terrestrial and Aquatic Animal Health codes.
2. The WOAH codes are accepted by the World Trade Organisation.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

18. Consider the following statements with reference to Virtually Integrated System to Access Agricultural Resources project:

1. It aims to develop Digital Public Infrastructure (DPI) for agricultural extension by supporting efforts of State Agricultural Universities.
2. It is funded by the International Fund for Agricultural Development.
3. The project leverages deployed ground level AI chatbots and its subsequent integration with AgriStack.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1, 2 and 3
- (c) 1 and 3 only
- (d) 2 and 3 only

19. Consider the following statements regarding Digital Agriculture Mission:

1. Under its AgriStack feature, Farmer ID will be introduced containing data regarding land records and livestock ownership of farmers.
2. It includes Krishi Decision Support System to integrate remote sensing data on crops and soil into a Geospatial system.
3. The Digital General Crop Estimation Survey under the mission will be used for increasing accuracy of agricultural production.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

20. Which of the following best describes Kisan Kavach, recently seen in news?

- (a) A Pension scheme developed particularly for farmers
- (b) It is an Anti-pesticide suit for farmers
- (c) A list containing details of all pesticides including their short- and long-term effects on health

- (d) An app for promotion of Farmer Producer Organisations

21. With reference to India's first mission to Venus, consider the following statements

1. It is scheduled to be launched by ISRO in 2028 and will be India's first interplanetary mission.
2. The mission aims to study Venus' surface, atmosphere, and its interaction with solar radiation.
3. The mission plans to use aero-braking to adjust the satellite's orbit using Venus' atmosphere.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All three

22. With reference to the CO₂-to-Methanol pilot plant recently announced in India, consider the following statements:

1. It is being established in Maharashtra through a collaboration between IIT-Delhi and a private company.
2. The project aims to contribute to carbon capture and utilization efforts and reduce India's crude oil imports.
3. The pilot plant will primarily focus on blending methanol into aviation fuel to reduce emissions in the aviation sector.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All three

23. Kleptoparasitism, recently seen in the context of animal behaviour, best refers to

- (a) A mutualistic interaction between different species for shared food resources
- (b) A reproductive strategy involving parental care by both sexes
- (c) The act of stealing food or other resources

- es by one animal from another
- (d) A type of camouflage used by prey animals to avoid predators

24. With reference to the International Big Cat Alliance (IBCA), consider the following statements:

1. The IBCA aims to conserve seven species of big cats, including the Puma and Jaguar.
2. It was launched in 2023 by India to commemorate the 50th anniversary of Project Tiger.
3. Its Secretariat is based in Geneva under the United Nations Environment Programme (UNEP).

Which of the statements given above are correct?

- (a) 1 and 2 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) All three

25. India's first Nano DAP (Liquid) plant, recently inaugurated, is located in:

- (a) Panipat, Haryana
(b) Kalol, Gujarat
(c) Raipur, Chhattisgarh
(d) Bhopal, Madhya Pradesh

Passage:

It is no longer enough for us to talk about providing for universal access to education. Making available schooling facilities is an essential prerequisite, but is insufficient to ensure that all children attend school and participate in the learning process. The school may be there, but children may not attend or they may drop out after a few months. Through school and social mapping, we must address the entire gamut of social, economic, cultural and indeed linguistic and pedagogic issues, factors that prevent children from weaker sections and disadvantaged groups, as also girls, from regularly attending and complementing elementary education. The focus must be on the poorest and most vulnerable since these

groups are the most disempowered and at the greatest risk of violation or denial of their right to education.

The right to education goes beyond free and compulsory education to include quality education for all. Quality is an integral part of the right to education. If the education process lacks quality, children are being denied their right. The Right of Children to Free and Compulsory Education Act lays down that the curriculum should provide for learning through activities, exploration and discovery. This places an obligation on us to change our perception of children as passive receivers of knowledge, and to move beyond the convention of using textbooks as the basis of examinations. The teaching-learning process must become stress-free; and a massive programme for curricular reform should be initiated to provide for a child-friendly learning system, that is more relevant and empowering. Teacher accountability systems and processes must ensure that children are learning, and that their right to learn in a child-friendly environment is not violated. Testing and assessment systems must be re-examined and redesigned to ensure that these do not force children to struggle between school and tuition centres, and bypass childhood.

26. According to the passage, which of the following is/are of paramount importance under the Right to Education?

1. Sending of children to school by all parents
2. Provision of adequate physical infrastructure in schools
3. Curricular reforms for developing child-friendly learning system

Select the correct answer using the code given below.

- a) 1 only
b) 1 and 2 only
c) 3 only
d) None of the above

27. The number of mangoes in three baskets are in the ratio of 3:4:5. In which ratio the number of mangoes in first two baskets must be increased so that the new ratio becomes 5:4:3?

- a) 1:3
- b) 2:1
- c) 3:4
- d) 2:3

28. LCM of first 100 natural numbers is N. What is the LCM of first 105 natural numbers?

- a) $5! \times N$
- b) $N \times 101 \times 103$
- c) $105N / 103$
- d) $4N$

29. The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other is:

- a) 279
- b) 283
- c) 308
- d) 318

30. A bell rings every 18 minutes. A second bell rings every 24 minutes. A third bell rings every 32 minutes. If all the three bells ring at the same time at 8 o'clock in the morning, at what other time will they all ring together?

- a) 12: 40 hrs
- b) 12: 48 hrs
- c) 12: 56 hrs
- d) 13: 04 hrs