

**ECONOMY, SC NAD TECH, CA**

- Which of the following controlled environment agriculture technology must be used when there is very high water scarcity and highly degraded soil?
  - Atmoponics**
  - Organoponics
  - Geoponics
  - Xeriscaping
- With reference to the Off-budget Borrowings, consider the following statements:
  - These are the loans that public sector undertakings take on behalf of the Union Government.
  - These constitute one of the largest items in the fiscal deficit of the Government.
  - Repayment of principal and interest of such borrowings is done from the Central Government Budget.

Which of the statements given above is/are correct?

- 1 only
  - 1 and 3 only**
  - 3 only
  - 1, 2 and 3
- With reference to the Deposit Insurance Credit Guarantee Corporation (DICGC), consider the following statements:
    - It insures only the principal amount of the depositor held with the scheduled commercial bank.
    - It insures all the deposits of Central and State governments.
    - All cooperative banks including Primary Cooperative Societies are covered by the DICGC.

Which of the statements given above is/are correct?

- 1 and 2 only
  - 3 only
  - 1 and 3 only
  - None of the Above**
- Which of the following statements is correct regarding the reverse repo normalisation?
    - It is the rate at which commercial banks borrow money from the RBI.
    - It is the reduction of the gap between repo rate and reverse repo rate by the RBI.**
    - It is aimed at increasing liquidity in the market.
    - It will result in increasing the demand for money among consumers
  - With respect to the "SHAPHARI" scheme, seen in the news recently, consider the following statements:
    - It focuses on the certification of aquaculture products like shrimps in India.
    - It is launched and implemented by the Agricultural and Processed Food Products Export Development Authority.
    - It gives the certificate that authenticates the produce is free of additives like antibiotics.

Which of the statements given above is/ are correct?

- 1 only
  - 2 and 3 only
  - 1 and 3 only**
  - 1, 2 and 3
- Consider the following statements about an Indian satellite
    - It provides cloud penetration and day-night imaging capability
    - It can be used for paddy monitoring in Kharif season and management of natural disasters
    - It is the first all weather satellite system in India

Which of the following satellite systems of India has the foresaid capabilities?

- Cartosat
  - HySIS
  - GISAT
  - RISAT**
- Which of the following reports are released by the World Bank Group?
    - Global Financial Development Report
    - World Trade Report
    - Global Financial Stability Report
    - World Development Report

Select the correct answer using the codes given below:

- 1 and 2 only

- b) 2 and 4 only  
c) **1 and 4 only**  
d) 1, 3 and 4 only
8. Which of the following can be the consequences of a 'negative interest rate' in an economy?
1. Reduced savings in an economy
  2. Higher returns to foreign investors
  3. Appreciation of domestic currency
  4. Decreased profit margins of Banks
  5. Lower yields of Government Bonds

Select the correct answer using the codes given below:

- a) 1, 2 and 3 only  
b) **1, 4 and 5 only**  
c) 2, 4 and 5 only  
d) 1, 3, 4 and 5 only
9. Consider the following statements.
1. Lithium is a least reactive alkali metal and a powerful reducing agent.
  2. Lithium-polymer batteries offer more safety than Lithium-ion batteries.

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
10. This economic theory states that as a household's income increases, the percentage of income spent on food decreases while the proportion spent on other goods (such as luxury goods) increases.

Which of the following Economic law is mentioned in the above paragraph?

- a) Law of supply  
b) **Engel's Law**  
c) Law of Demand  
d) Law of self interest
11. An increase in prices of which of the following will lead to an increase in the Core Inflation?
1. Clothing and footwear
  2. Transport and communication
  3. Edible Oil
  4. Healthcare

Select the correct answer using the code given below:

- a) 1 and 4 only  
b) **1, 2 and 4 only**  
c) 2 and 3 only  
d) 1, 2, 3 and 4
12. Consider the following statements about Assisted Reproductive Technology:
1. In India, at present, the statute allows obtaining gametes from any person who has attained 18 years of age and is married.
  2. In India, the gamete of a single donor can be given to more than one commissioning couple but the donor will not have any parental rights over the child.
  3. In assistive reproductive technology, human embryos can be grown inside animals also.

Which of the statements given above is/are correct?

- a) 1 and 2  
b) 2 only  
c) 1, 2 and 3  
d) **3 only**
13. Consider the following statements with reference to the Urban Co-operative Banks:
1. They come under the direct supervision of the Reserve Bank of India.
  2. Borrowers can also be shareholders in Urban Co-operative Banks.
  3. They can raise capital through the issuance of debt Instruments.
  4. They are not required to follow the BASEL norms.

Which of the statements given above are correct?

- a) 1 and 4 only

- b) 2 and 3 only  
c) **1, 2 and 3 only**  
d) 1, 2, 3 and 4
14. Which among the following are the members of the New Development Bank?
1. Bangladesh
  2. United Arab Emirates
  3. Uruguay
  4. Egypt
  5. Maldives
- Select the correct answer using the code given below:
- a) 2 and 5 only  
b) 1, 3 and 4 only  
c) **1, 2, 3 and 4 only**  
d) 1, 2, 3, 4 and 5
15. "Sweet Revolution" is related to
- a) **Development of scientific beekeeping**
  - b) Increasing the exports of Raw Milk
  - c) Increasing the exports of processed milk products
  - d) Promotion of Sugarcane cultivation
16. Consider the following statements regarding the Pradhan Mantri Adarsh Gram Yojana.
1. It aims to achieve integrated development of selected villages through the convergent implementation of all relevant Central and State schemes.
  2. It aims for the integrated development of villages each with more than 50% SC population.
  3. Eklavya Model Residential School is an important element of this scheme.
  4. Sarva Shiksha Abhiyan, Mahatma Gandhi National Rural Employment Guarantee Act and Integrated Child Development Services are some of the schemes implemented under this.
- Which of the statements given above are correct?
- a) 1, 2 and 3 only
  - b) **1, 2 and 4 only**
  - c) 1, 3 and 4 only
  - d) 2, 3 and 4 only
17. Which of the following works based on the principle of Centrifugation?
1. Extraction of cream from milk
  2. Enrichment of Uranium
  3. Sludge dewatering
- Select the correct answer using the code given below.
- a) 1 only
  - b) 1 and 3 only
  - c) 2 only
  - d) **1, 2 and 3**
18. Which of the following statements is not correct about Quantum computers?
- a) **Quantum computers are larger in size than supercomputers**
  - b) Quantum computers require less energy than super computers
  - c) Quantum algorithms can use superposition, interference, and entanglement to perform calculations
  - d) Quantum bits (Qubits) can be in the state of 1 and 0 simultaneously
19. With reference to genetic diseases, consider the following statements:
1. Cancer can be cured by genetically modifying the T-cells of the patient to make them competent to identify and kill the cancer cells.
  2. The Chimeric Antigen Receptor – T (CAR-T) cell-based cancer therapy can be enhanced by the use of mRNA vaccine technology.
- Which of the statement given above is/are correct?
- a) 1 only
  - b) 2 only
  - c) **Both 1 and 2**
  - d) Neither 1 nor 2
20. With reference to Hydrogen Energy, consider the following statements:

1. The use of Hydrogen blended natural gas as a fuel requires hybrid engines that have fuel cells and internal combustion mechanisms to generate heat.
2. Hydrogen embrittlement weakens metal pipes and increases leakage risks requiring the use of Polyethylene Pipes at a large scale for hydrogen transport.
3. Integrated biorefineries can produce hydrogen from a wide variety of organic wastes.

Which of the statements given above is/are correct?

- a) 1 and 2
- b) 2 only
- c) 1 and 3
- d) 3 only**

21. With reference to Purchasing Managers' Index, consider the following statements:

1. It is an indicator of business activity only in the services sectors.
2. It is compiled by the World Economic Forum.

Which of the statements given above is/are not correct?

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

22. 3Gulamgiri (Slavery) and Shetkarayacha Aasud (Cultivator's Whipcord) authored by which among the followings ?

- a) Sardar Vallabhbhai Patel.
- b) Mahatma Gandhi
- c) Vinayak Damodar Savarkar
- d) Jyotiba Phule**

23. Which of the following are the eligibility criteria for the Pradhan Mantri Shram Yogi Maan-Dhan Scheme (PM-SYM)?

1. They should be an unorganised worker (UW).
2. Their age should be between 18 and 40 years
3. Monthly Income Rs 15000 or below
4. They should be covered under New Pension Scheme (NPS)

Select the correct answer using the code given below:

- a) 1, 2 and 3 only**
- b) 1, 2 and 4 only
- c) 1, 3 and 4 only
- d) 2, 3 and 4 only

24. With reference to the United Nations (UN) Human Rights Council, consider the following statements:

1. Its members serve for a period of three years and are not eligible for immediate re-election after serving two consecutive terms.
2. It's all income comes from voluntary contributions from the Member States and other donors.
3. It has the ability to discuss all thematic human rights issues and situations that require its attention throughout the year.

Which of the statements given above are correct?

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

25. Glycosmis albicarpa, recently seen in the news, it is related to which of the following?

- a) Flying Squirrel
- b) Edible fruit**
- c) Asteroid
- d) Nuclear Weapon