

INDIAN ECONOMY, SCIENCE AND TECHNOLOGY AND CURRENT AFFAIRS

1. Consider the following Statements.

1. Scientists from the Institute of Nano Science and Technology (INST), an autonomous institute under the Department of Science & Technology, have developed a material called 'Hemostat'.
2. It is a starch-based 'hemostat' developed to stop rapid blood loss during accidents, as it physically absorbs excess fluid and concentrates the natural clotting factors in blood. The product possesses increased absorption capacity, improved absorption, inexpensive and Bio degradable.

Select the incorrect code from the options given below:

- (a) Only 1 (b) Only 2
(c) Both 1 & 2 **(d) Neither 1 & 2**

2. Consider the following Statements.

1. The Indian Institute of Technology (IIT)-Ropar has developed a technology to sanitise groceries and currency notes from Covid-19.
2. The team has developed a trunk-shaped device fitted with ultraviolet germicidal irradiation technology. The device has to be placed at doorsteps and all items brought from outside including grocery and currency notes have to be placed inside it. It takes 30 minutes to sanitise the items.

Select the correct code from the options given below:

- (a) Only 1 (b) Only 2
(c) Both 1 & 2 (d) Neither 1 & 2

3. Consider the following Statements.

1. The NASA's Stratospheric Observatory for Infrared Astronomy (SOFIA) has confirmed the presence of water on the sunlit surface of moon.
2. The water particles have been discovered in Clavius Crater, one of the largest craters of moon visible from Earth. The crater is located in the Moon's southern hemisphere.

Select the correct code from the options given below:

- (a) Only 1 (b) Only 2
(c) Both 1 & 2 (d) Neither 1 & 2

4. Consider the following Statements

1. The Institute of Life Sciences (ILS), an autonomous institute of the Department of Biotechnology, has successfully established stable cultures of coronavirus from patient samples.
2. The Seventeen in-vitro cultures have been established using Vero cells, from samples of different locations and different virus loads. The cultured SARS-Cov-2 can be used in developing antibodies or antidotes, testing of antibodies and identifying therapeutic agents.

Select the correct code from the options given below:

- a) Only 1 (b) Only 2
b) **Both 1 & 2** (d) Neither 1 & 2

5. BBV87, is the vaccine candidate of Bharat Biotech, against which disease?

- (a) COVID-19
(b) Chikungunya
(c) Dengue
(d) Malaria

6. What is "Virtual Private Network"?

- a) It is a private computer network of an organization where the remote users can transmit encrypted information through the server of the organization
- b) It is a computer network across a public internet that provides users access to their organization's network while maintaining the security of the information transmitted**

- c) It is a computer network in which users can access a shared pool of computing resources through a service provider.
- d) None of the statements (a), (b) and (c) given above is a correct description of Virtual Private Network.
7. A genetically engineered form of brinjal, known as the Bt-brinjal, has been developed. The objective of this is to;
- To make it pest-resistant**
 - To improve its taste and nutritive qualities
 - To make it drought-resistant
 - To make its shelf-life longer
8. Consider the following statements about Project 'UNNATI':
- It intends to upgrade the skill base of MGNREGA workers.
 - It is an initiative by the NITI Aayog.
- Which of the statements given above is/are correct?
- 1 only**
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
9. Consider the following statements with respect to 'Agni 3'
- It is a nuclear capable ballistic missile and has the capability of carrying warhead weighing as much as 15 tonnes
 - Agni-3 missile is known as world's most accurate strategic ballistic missile of its range class due to its high range of circular error probable (CEP)
- Select the correct statement(s)
- 1 only
 - 2 only**
 - Both 1 and 2
 - Neither 1 nor 2
10. Consider the following statements with respect to 'Pradhan Mantri Fasal Bima Yojana'
- The scheme cover oil seeds, food crops and annual horticultural crops with a uniform premium rate for all seasons
 - It covers losses arising out from pre-sowing to post-sowing period including localized calamities such as attacks by wild animals, war and nuclear risks
 - Yield Estimation System based on Technology (YES-Tech) and Collection of Real Time Observations and Photographs of Crops (CROPIC) are employed under the scheme
- Choose the correct answer using the code given below
- 1 and 2 only
 - 1 and 3 only
 - 2 and 3 only
 - 3 only**
11. Consider the following statements with respect to 'MAARG portal'
- It is a one stop platform to facilitate navigation and issue advisories in and around the Indian Ocean region
 - It is a joint initiative of Ministry of Earth Sciences and Ministry of Ports, Shipping and Waterways
- Select the INCORRECT statement(s)
- 1 only
 - 2 only
 - Both 1 and 2**
 - Neither 1 nor 2
12. 'Koronivia Joint Work' seen in news is used in the context of which of the following?
- Carbon trading**

- b. **Agriculture**
- c. Wetland conservation
- d. Plastic usage

13. With reference to 'National Suicide Prevention Strategy', consider the following statements

1. The strategy is in line with the WHO's South East-Asia Region Strategy for suicide prevention
2. It aims to integrate a mental well-being curriculum in all educational and corporate institutions within the next decade

Select the correct statement(s)

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

14. Consider the following Statements

1. Egypt hosted the 27th session of the Conference of the Parties to the UNFCCC (COP27).
2. The theme was "achieving the world's collective climate goals".

Choose the correct answer from the codes given below:

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

15. Consider the following statements regarding India's first privately developed rocket, Vikram-S:

1. It was developed by the Hyderabad-based Skyroot Aerospace.
2. The mission named 'Prarambh' (the beginning), since it is the first mission for Skyroot.
3. The Vikram series, named after the founder of India's space programme Dr Vikram Sarabhai, are all-carbon-fibre structures that can launch up to 800 kg of payloads to the Low Earth Orbit.

Choose the correct option from the codes given below:

- a) Only 1 & 2
- b) Only 2 & 3
- c) Only 3
- d) **1, 2 & 3**

16. Consider the following statements regarding Currency Deposit Ratio.

1. It shows the amount of currency that people hold as a proportion of aggregate deposits.
2. An increase in cash deposit ratio leads to an increase in money multiplier.

Which of the above statements is/are incorrect?

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

17. Consider the following statements regarding Certificates of Deposits (CD).

1. CD is a negotiable, unsecured money market instrument issued by a bank as a usance promissory note against funds deposited with it.
2. CDs are issued to all persons resident in India.
3. CDs are issued only in dematerialised form and held with a depository registered with SEBI.
4. Banks can grant loans against Certificates of Deposits without the approval of RBI.

Which of the above statements is/are correct?

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

18. Vostro account, sometimes seen in news is used in the context of which of the following?

- a. Zero balance Account
- b. Foreign exchange transactions**
- c. Providing Subsidies to the Targeted Beneficiaries
- d. Bank account without any expiry

19. Consider the following statements regarding World Trade Organization (WTO).

- 1. The World Trade Organization (WTO) is the only global international organization dealing with the rules of trade between nations.
- 2. It officially commenced operations on 1 January 1995, under the Marrakesh Agreement.
- 3. After WTO came in to existence, General Agreement on Trade and Tariffs (GATT) ceased to exist.

Which of the above statements is/are correct?

- a. 2 and 3
- b. 1 and 3
- c. 1 and 2**
- d. 1, 2, 3

20. Consider the following statements regarding "Neo banks" sometimes seen in news

- 1. Neo banks are financial institutions with only an online presence and function digitally.
- 2. Neo banks have to apply for a banking license with RBI.
- 3. Neo banks offer banking services like savings accounts, small loans and debit cards.

Which of the above statements is/are correct?

- a. 1 and 2
- b. 1 and 3**
- c. 2 and 3
- d. 1, 2, 3

21. Which of the following committees are related to RBI surplus transfers?

- 1. Bimal Jalan committee
- 2. Bibek Debroy committee
- 3. Malegam committee

Select the correct answer code:

- a. 1 and 2
- b. 1 and 3**
- c. 2 and 3
- d. 1, 2, 3

22. Consider the following statements regarding difference between Consumer Price Index (CPI) and GDP deflator

- 1. GDP deflator include prices of imported goods but they are not included in CPI.
- 2. While CPI is released by Central Statistics Office (CSO), the data on GDP deflator is released by Labour Bureau.
- 3. The weights are constant in CPI, but they differ according to production level of each good in GDP deflator.

Which of the above statements is/are correct?

- a. 1, 2
- b. 3 only**
- c. 2, 3
- d. 1, 2, 3

23. Which of the following committees had proposed privatisation of PSU banks?

- 1. Narasimham Committee
- 2. P J Nayak Committee
- 3. Naresh Chandra Committee

Select the correct answer code:

- a. 1 only
- b. 2, 3
- c. **1, 2**
- d. 1, 2, 3

24. Consider the following statements regarding India's Central Bank Digital Currency (CBDC).

- 1. The concept of CBDCs was directly inspired by Bitcoin.
- 2. CBDCs enable the user to conduct both domestic and cross-border transactions which do not require a third party or a bank.
- 3. It is not exchangeable one-to-one with the fiat currency.

Which of the above statements is/are correct?

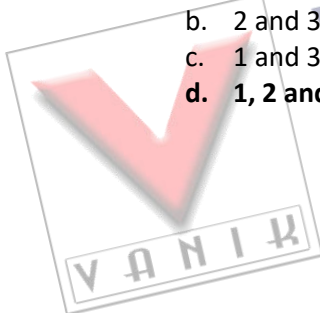
- a. **1, 2**
- b. 1, 3
- c. 2, 3
- d. 1, 2, 3

25. Consider the following statements

- 1. At Repo Rate, the Reserve Bank of India (RBI) provides liquidity against the collateral of the government.
- 2. At the Standing Deposit Facility. (SDF) Rate the Reserve Bank of India (RBI) accepts non collateralized deposits on an overnight basis.
- 3. Cash Reserve Ratio (CRR) is the average daily balance that a bank is required to maintain with the Reserve Bank of India (RBI) as a percent of its net demand and time liabilities (NDTL)

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**



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