

**ECONOMY, SCIENCE and TECHNOLOGY, CA**

- Which is the measure of correcting excess demand?
  - Deficit financing
  - Reduction in taxes
  - Increase in public expenditure
  - Increase in public debt**
- Which one of the following statements appropriately describes the “fiscal stimulus”?
  - It is a massive investment by the government in the manufacturing sector to ensure the supply of goods to meet the demand surge caused by rapid economic growth.
  - It is an intense affirmative action of the government to boost economic activity in the country.**
  - It is the government's intensive action on financial institutions to ensure disbursement of loans to agriculture and allied sectors to promote greater food production and contain food inflation.
  - It is an extreme affirmative action by the government to pursue its policy of financial Inclusion.
- The national income of a country for a given period is equal to the:
  - total value of goods and services produced by the nationals
  - sum of total consumption and investment expenditure
  - sum of personal income of all individuals
  - money value of final goods and services produced**
- When depreciation is deducted from Gross National Product, the net value is.
  - Net Domestic Product
  - Net National Product**
  - Gross National Product
  - Disposable Income
- With reference to ‘Agenda 21’, sometimes seen in the news, consider the following statements:
  - It is a global action plan for sustainable development.
  - It originated in the World Summit on Sustainable Development held in Johannesburg in 2002.

Which of the statements given above is/are correct?

- 1 only**
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- Human Development Report published by UNDP compares countries based on the educational levels of the people, their health status and per capita income. Consider the following statements related to this.
    - In HDR Per Capita Income is calculated in dollars adjusted by purchasing power for all countries so that it can be compared.
    - Nepal has half the per capita income of India, yet it is not far behind India in life expectancy and literacy levels.
    - Health, education and skill indicators are used along with income as a measure of development in HDI.

Select the correct statements using codes below.

- 1 and 2**
  - 1 and 3
  - 2 and 3
  - All of the above
- With reference to Pradhan Mantri Kaushal Vikas Yojana, consider the following statements:
    - It is the flagship scheme of the Ministry of Labour and Employment.
    - It, among other things, will also impart training in soft skills, entrepreneurship, financial and digital literacy.
    - It aims to align the competencies of the unregulated workforce of the country to the National Skill Qualification Framework.

Which of the statements given above is/are correct ?

- 1 and 3 only
  - 2 only
  - 2 and 3 only**
  - 1, 2 and 3
- Physical capital refers to:
    - All of these
    - Process of acquiring and increasing the number of persons who have the skill
    - Stock/shares of the companies
    - Stock of produced means of production**
  - Consider the following statements:
    - The weightage of food in the Consumer Price Index (CPI) is higher than that in the Wholesale Price Index (WPI).

2. The WPI does not capture changes in the prices of services, which the CPI does.
3. The Reserve Bank of India has now adopted WPI as its key measure of inflation and to decide on changing the key policy rates.

Which of the statements given above is/are correct?

- a) **1 and 2 only**
  - b) 2 only
  - c) 3 only
  - d) 1, 2 and 3
10. Which one of the following has not caused a huge growth in hedge funds?
- a) Hedge fund managers' ability to adopt creative investing approaches to boost returns.
  - b) Private investors looking for a higher return.
  - c) **Tough financial restrictions that encourage more investment and, as a result, higher returns.**
  - d) Financial entities seeking a higher return on investment.
11. Consider the following statements:
1. Chemical coordination is limited to the plants only.
  2. The nervous system of human body uses electrical impulses to transmit messages.

Which of the statement(s) given above is/are correct?

- a) 1 only
  - b) **2 only**
  - c) Both 1 and 2
  - d) Neither 1 nor 2
12. With reference to Stars, consider the following statements:
1. Gyrochronology can be used to determine age of star.
  2. As the star ages, its rotation slows down due to loss of angular momentum.

Which of the statement/s given above is/are correct?

- a) 1 only
  - b) 2 only
  - c) **Both 1 and 2**
  - d) Neither 1 nor 2
13. The terms red dwarfs, red giants, supergiants, white, and brown dwarf are associated with

- a) **Stars**
  - b) Planets
  - c) Satellites of Saturn
  - d) Type of light waves
14. With reference to Hydrogen fuel cells, consider the following statements:
1. In a Hydrogen fuel cell, electricity, water, carbon dioxide and heat are the only products.
  2. The fuel, i.e., hydrogen, is fed to the cathode, and air is fed to the anode.
  3. Fuel cells are quiet during operation as they have fewer moving parts.

Which of the statements given above is/are correct?

- a) 1 and 3 only
  - b) **3 only**
  - c) 1 and 2 only
  - d) 1, 2 and 3
15. S-400' recently seen in the news is related to which of the following?
- a) **The S-400 Triumf is a mobile, surface- to-air missile system (SAM) designed by Russia.**
  - b) It is an exoplanet which lies in Goldilock zone of its star discovered by NASA.
  - c) It is a solar system outside milkyway which resembles our Solar System.
  - d) It is Naval War Ship developed by USA, recently commissioned in Indian Navy.
16. "NewSpace India Limited", recently seen in the news, is a
- a) **commercial wing of ISRO**
  - b) consortium of private sector for space missions
  - c) research arm of ISRO for human space missions
  - d) None of the above
17. With reference to the indigenously-built stealth corvettes in India, consider the following statements:
1. It is one of the four indigenously built Anti-Submarine Warfare stealth corvettes built under Project 28.
  2. It has a unique feature of the superstructure made of carbon fibre composite material.
  3. It is named after the capital city present on one of the Islands of India.

Identify the name of the ship from the above information:

- a) INS Kamorta
- b) INS Kadmat
- c) **INS Kavaratti**

- d) INS Mumbai
18. Which one of the following differences between cruise missiles and ballistic missiles is not correct?
- Ballistic missiles travel over longer distances than cruise missiles
  - Ballistic missiles can hit only a single target, while cruise missiles can deliver multiple warheads**
  - Ballistic missiles travel under the influence of gravity for a part of their journey while cruise missiles are propelled until they hit the target
  - Ballistic missiles primarily carry nuclear warheads while cruise missiles primarily carry conventional warheads
19. The term “EventBot”, sometimes seen in the news recently, is a
- Super Computer
  - Malware**
  - Humanoid robot
  - Unmanned aerial vehicle
20. “Arktika-M satellite”, sometimes seen in the news recently, belongs to
- India
  - Russia**
  - United States of America
  - China
21. With reference to Opium cultivation consider the following statements
- The cultivation of opium poppy in India is strictly regulated with the crops being allowed to be sown only in tracts of land notified by the central government
  - Every state has one notified districts has been allowed to cultivate opium poppy in India.
- Choose the correct statement using the codes given below
- 1 only**
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
22. Which of the following statement is correct about the “One Belt One Road” initiative?
- “Belt” refers to the Himalayan belt and “road” refers to the land routes. The initiative aims at improving connectivity among Asia, Africa and Antarctica.
  - “Belt” refers to maritime roads and “road” refers to air and land routes. The initiative aims at improving connectivity among China, Pakistan, India and other Asian countries.
  - “Belt” refers to the overland routes and “road” refers to the sea routes. The initiative aims at improving connectivity among Asia, Africa and Europe.**
  - “Belt” refers to the Arabian Belt and “road” refers to land routes. The initiative aims at improving connectivity among Asia, Africa, Australia, Indian Ocean and Arabian Sea.
23. Which of the following is/are the function(s) of the “Drugs Controller General of India” (DCGI)?
- Approval of new drugs and clinical trials
  - Banning of drugs and cosmetics
  - Testing of new drugs
- Select the correct answer using the code given below.
- 1 only
  - 2 and 3 only
  - 1 and 3 only
  - 1, 2 and 3**
24. “Moscow declaration” is related to which one of the following?
- Global TB response**
  - Multi Drug Resistance
  - Road Safety
  - Children against trafficking
25. Consider the following statements about the “Convalescent Plasma Therapy” which sometimes seen in the news recently:
- It involves the use of plasma from people who have recovered from the infection to aid the immune response of those still fighting it.
  - There are no major side effects with this therapy.
  - It will increase the cytokine storm in the infected person.
- Which of the statements given above is/are correct?
- 3 only
  - 2 and 3 only
  - 1 and 2 only**
  - 1, 2 and 3