

ECONOMY, CA, SCIENCE AND TECH

1. In India, in the overall index of Industrial Production, the Indices of Eight Core Industries have a combined weight of 37.90%. Which of the following are among those Eight Core Industries?
 1. Cement
 2. Fertilizers
 3. Natural Gas
 4. Refinery products
 5. Textiles
 Select the correct answer using the codes given below:
 (a) 1 and 5 only (b) 2, 3 and 4 only
(c) 1, 2, 3 and 4 only (d) 1, 2, 3, 4 and 5
2. Consider the following statements:
 The price of any currency in international market is decided by the
 1. World Bank
 2. Demand for good/services provided by the country concerned
 3. Stability of the government of the concerned country
 4. Economic potential of the country in question.
 Which of the statements given above are correct?
 (a) 1, 2, 3, and 4 **(b) 2 and 3 only**
 (c) 3 and 4 only (d) 1 and 4 only
3. Economic growth is usually coupled with
 - (a) Deflation
 - (b) Inflation**
 - (c) Stagflation
 - (d) Hyperinflation
4. Which one of the following statements appropriately describes the “fiscal stimulus”?
 - (a) It is a massive investment by the Government in manufacturing sector to ensure the supply of goods to meet the demand surge caused by rapid economic growth
 - (b) It is an intense affirmative action of the Government to boost economic activity in the country**
 - (c) It is 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
 - (d) It is an extreme affirmative action by the Government to pursue its policy of financial inclusion
5. A rapid increase in the rate of inflation is sometimes attributed to the “base effect”. What is “base effect”?
 - (a) It is the impact of drastic deficiency in supply due to failure of crops
 - (b) It is the impact of the surge in demand due to rapid economic growth
 - (c) It is the impact of the price levels of previous year on the calculation of inflation rate**
 - (d) None of the statements (a), (b) and (c) given above is correct in this context
6. A “closed economy” is an economy in which
 - (a) The money supply is fully controlled
 - (b) Deficit financing takes place
 - (c) Only exports take place
 - (d) Neither exports nor imports take place**
7. In the context of governance, consider the following:
 1. Encouraging Foreign Direct Investment inflows
 2. Privatization of higher educational Institutions
 3. Down-sizing of bureaucracy
 4. Selling/offloading the shares of Public Sector Undertakings
 Which of the above can be used as measures to control the fiscal deficit in India?
 (a) 1, 2 and 3

- (b) 2, 3 and 4
(c) 1, 2 and 4
(d) 3 and 4 only
8. Which one of the following statements is an appropriate description of deflation?
(a) It is a sudden fall in the value of a currency against other currencies
(b) It is a persistent recession in both the financial and real sectors of economy
(c) It is a persistent fall in the general price level of goods and services
(d) It is a fall in the rate of inflation over a period of time
9. With reference to India, consider the following statements:
1. The Wholesale Price Index (WPI) in India is available on a monthly basis only.
2. As compared to Consumer Price Index – for Industrial Workers (CPI (IW)), the WPI gives less weight to food articles.
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. Fruits stored in a cold chamber exhibit longer storage life because
(a) exposure to sunlight is prevented
(b) concentration of carbon dioxide in the environment is increased
(c) rate of respiration is decreased
(d) there is an increase in humidity
11. Examine the following three statements:
1. Processed meat is a perishable food
2. All perishable foods are packed in sealed tins
3. Sealed tins sometimes do not contain processed meat
Which one of the following inferences can be drawn from the above statements?
(a) Sealed tins always contain perishable food
(b) Processed meat is sometimes not packed in sealed tins
(c) Processed meat is always packed in sealed tins
(d) Non-perishable foods are never packed in sealed tins
12. In human beings, normally in which one of the following parts, does the sperm fertilize the ovum?
(a) Cervix
(b) Fallopian tube
(c) Lower part of uterus
(d) Upper part of uterus
13. Consider the following statements:
1. National Payments Corporation of India (NPCI), an umbrella organization for operating retail payments and settlement systems in India.
2. It is an initiative of the Reserve Bank of India (RBI) and the Indian Banks' Association (IBA) under the provisions of the Payment and Settlement Systems Act, 2007.
Which of the above statement/s is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
14. In an atom, the order of filling up of the orbitals is governed by
(a) Aufbau's principle
(b) Heisenberg's uncertainty principle
(c) Hund's rule
(d) Pauli's exclusion principle
15. A radioactive substance has a half-life of four months. Three-fourth of the substance would decay in
(a) 3 months
(b) 4 months
(c) 8 months
(d) 12 months

16. A girl is swinging on a swing in sitting position. When the girl stands up, the period of swing will :

- (a) **be shorter**
- (b) be longer
- (c) depends on the height of the girl
- (d) not change

17. Consider the following statements:

1. A deep fake voice is one that closely resembles the voice of an actual person.
2. Attackers use this technology to trick consumers, steal their identities, and carry out numerous other unlawful actions like using phone scams and publishing fake videos on social media.

Which of the above statements is/are correct?

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

18. Consider the following pairs of Terms sometimes seen in news vs Context /Topic:

1. Belle II experiment: Artificial Intelligence
2. Blockchain technology: Digital/ Cryptocurrency
3. CRISPR - Cas9: Particle Physics

Which of the pairs given above is/are correctly matched?

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

19. In India, the term "Public Key Infrastructure" is used in the context of

- (a) **Digital security infrastructure**
- (b) Food security infrastructure
- (c) Health care and education infrastructure
- (d) Telecommunication and transportation Infrastructure

20. According to Coulomb's law, the electrostatic force between two charges is

- (a) inversely proportional to the product of the charges
- (b) **inversely proportional to the square of the distance between the charges**
- (c) directly proportional to the cube of the distance between charges
- (d) none of these

21. The sun is seen before the actual sunrise because of:

- (a) reflection
- (b) refraction
- (c) **scattering of light**
- (d) rectilinear propagation of light

22. Consider the following statements regarding the "recapitalisation of banks":

1. Recapitalisation of Banks is injecting additional capital into banks to bring them up to capital adequacy standards.
2. Recapitalisation of Banks is targetted at state-owned banks only.

Select the correct statements from the codes below:

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

23. With reference to the Indian economy, consider the following statements:

1. An increase in Nominal Effective Exchange Rate (NEER) indicates the appreciation of rupee.
2. An increase in the Real Effective Exchange Rate (REER) indicates an improvement in trade competitiveness.
3. An increasing trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER.

Which of the above statements are correct?

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

24. Consider the following statements.

1. Increased investment in infrastructure can lead to reduced fiscal deficits.
2. Higher interest rates lead to faster growth of the economy.

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

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

25. Parshuram Kund Festival often mentioned in news is associated with which of the following state?

- (a) Mizoram
- (b) Manipur
- (c) Assam
- (d) Arunachal Pradesh**



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