

1. Energy today has become a key factor in deciding the product cost at micro level as well as in dictating the inflation and the debt burden at the macro level. Which of the following statements regarding the same stands true ?
  1. An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building.
  2. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.
  3. Energy Audit helps in energy cost optimization, pollution control, safety aspects and suggests the methods to improve the operating & maintenance practices of the system.
 Choose the correct option from the following :
  - (a) 1 & 2 only
  - (b) 2 & 3 only
  - (c) 1 & 3 only
  - (d) All of the above
2. Indian Constitution has provided an independent judiciary with a hierarchical setup containing High Courts and Subordinate Courts under it. Which of the following statements best describes the features of independent judiciary in India :
  1. The Constitution of India provides for a separation between the judiciary and the other two organs of the government.
  2. Salaries and pension of the high court judges are charged upon the consolidated fund of India.
  3. Independence of Judiciary is considered as a Basic Feature of the Indian Constitution.
  4. The judges of both high courts and the Supreme Court must be appointed without any influence or interference from other branches of the government.
  5. In India, the decisions of the higher courts are binding on the lower courts.
 Choose the correct option :
  - (a) 1, 2 & 3 only
  - (b) 1, 3 & 4 only
  - (c) 2, 3 & 5 only
  - (d) All of the above
3. Which of the following statements regarding the recently concluded UNSG climate action summit are true ?
  1. The Summit has brought together governments, private sector, civil society, local authorities and other international organizations to develop ambitious solutions in actionable areas.
  2. The nature-Based Solutions include reducing emissions, increasing sink capacity and enhancing resilience within and across forestry, agriculture, oceans and food systems, including through biodiversity conservation, leveraging supply chains and technology etc.
  3. India and U.S together with other partners are launching the Leadership group within the Industry transition track. This initiative will provide a platform for governments and the private sector with opportunities for cooperation in the area of Technology innovation.
 Choose the correct option :
  - (a) 1 & 2 only
  - (b) 2 & 3 only
  - (c) 1 & 3 only
  - (d) All of the above
4. Consider the following statements :
  1. In India's urban areas, congenital malformations and genetic disorders are the third most common cause of mortality in newborns.
  2. With a very large population and high birth rate, and consanguineous marriage favoured in many communities, prevalence of genetic disorders is high in India.
  3. The newly launched initiative 'UMMID' aims to tackle inherited genetic diseases of new born babies by establishing NIDAN Kendras to provide counselling, prenatal testing and diagnosis, management, and multidisciplinary care in Government Hospitals.
 Which of the above statements stands true ?
  - (a) 1 & 2 only
  - (b) 2 & 3 only

- (c) 1 & 3 only                      (d) All of the above
5. Which of the following countries can be referred to as “landlocked” countries ?
1. Poland
  2. Uganda
  3. Chad
  4. Sierra Leone
  5. Kyrgyzstan
- Choose the correct option from the following :
- (a) 1, 2 & 3 only
  - (b) 3, 4 & 5 only
  - (c) 2, 3 & 5 only
  - (d) 1, 2 & 4 only
6. Consider the following statements regarding C-Sat-Fi technology :
1. C-Sat-Fi technology is based on satellite communication to extend connectivity to the unserved areas including the remote islands and difficult terrains.
  2. C-Sat-Fi can work on any Wi-Fi enabled phone.
- Which of the above statements is/are correct?
- (a) 1 only                              (b) 2 only
  - (c) Both 1 and 2                      (d) None
7. Researchers from Indian Institute of Technology Madras (IITM) developed “Shakti” is related to :
- (a) Climate vulnerability maps developed for Himalayan states
  - (b) Utilising black carbon soot for treating industrial waste
  - (c) Microprocessor
  - (d) Magnetic Graphene
8. ‘Global Assessment of Forest Biodiversity’ report has been released by
- (a) International Union for Conservation of Nature
  - (b) UN Environment
  - (c) World Wide Fund for Nature
  - (d) Both B and C
9. Which of the following are the possible implications when a country adopts negative rate policy :
1. Increases borrowing costs.
  2. Help weaken a country’s currency rate by making it a less attractive investment than that of other currencies.
  3. Boosts Inflation
- Select the correct answer code:
- (a) 1, 2                              (b) 2 only
  - (c) 2, 3                              (d) 1, 3
10. Consider the following statements :
1. Bureau of Indian Standards is the national agency that is responsible for carrying out certification for instruments and equipments for monitoring emissions and ambient air.
  2. National Clean Air Programme is a five-year action plan with an aim of 20-30% reduction of PM2.5 and PM10 concentration by 2024.
  3. National Clean Air Programme also includes increasing number of monitoring stations in the country including rural monitoring stations.
- Which of the above statements is/are correct?
- (a) 1, 2                              (b) 1, 3
  - (c) 2, 3                              (d) 1, 2, 3

11. Consider the following statements :

1. India has the capability to become the wellness capital of the world. It is home to centuries old traditional systems of medicine and wellness practices that not only foster physical health but also mental and spiritual wellbeing.
2. The Sama Veda is a treasure trove of knowledge and wisdom in the field of medicine. It is lauded as the earliest source of medical information in India.
3. The foundations of Ayurveda were laid by the ancient schools of Hindu philosophical teachings-- Vaisheshika and the school of logic named as Nyaya.

Which of the above statements are true ?

- (a) 1 & 2 only                      (b) 2 & 3 only  
 (c) 1 & 3 only                      (d) All of the above

12. The central government has recently instituted its highest civilian award in the field of contribution to 'unity and integrity of India' under the name of which of following personalities?

- (a) Jawaharlal Nehru  
 (b) AB Vajpayee  
 (c) Sardar Vallabhbhai Patel  
 (d) Subhas Chandra Bose

13. Which of the following statements regarding India-RCEP partnership and its rules of investments stands true ?

1. India has not yet signed the Regional Comprehensive Economic Partnership agreement but it has accepted suggestions of other countries regarding rules on investments.
2. If the RCEP agreement is signed, these rules are expected to attract greater investment in India from the other 15 RCEP countries.
3. Indian laws currently do not have any provision wherein companies investing in the country can be made to transfer technology or know-hows to their domestic counterparts.

Choose the correct option form the following :

- (a) 1 & 2 only                      (b) 2 & 3 only  
 (c) 1 & 3 only                      (d) All of the above

14. Which of the following countries on needs to pass through while travelling from Egypt to Pakistan via suez canal (taking the shortest route) ?

1. Saudi Arabia
2. Iraq
3. Oman
4. Israel
5. Yemen

Choose the correct option from the following :

- (a) 1, 2 & 3 only  
 (b) 1, 3 & 4 only  
 (c) 2, 4 & 5 only  
 (d) 2, 3 & 5 only

15. The Central government has declared that the measures undertaken to boost coal production may eliminate coal imports by 2023.

Which of the following statements regarding the same stands true ?

1. Currently coal occupies 55% share in primary energy supply and about 75% in electricity generation.
2. The Government is opening new mines, expanding the capacity of existing mines and creating new evacuation infrastructure to ramp up the domestic coal production.
3. Promotion of diversified use of coal such as conversion of coal to synthesis gas and subsequent use of the latter to produce methanol or fertilizers is also expected to bring in more private players to produce coal domestically.

Choose the correct option from the following :

- (a) 1 & 2 only
- (b) 2 & 3 only
- (c) 1 & 3 only
- (d) All of the above

16. Consider the following statements :

- 1. Nitrosodimethylamine or NDMA is a drug, recently developed to fight cancer
- 2. It is toxic for liver

Choose the correct option :

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None

17. Panchakarma is a Sanskrit word that means “five actions” or “five treatments”. This is a process used to clean the body of toxic materials left by disease, poor nutrition and environmental toxins. Which of these are processes under it

- 1. Abhyanga
- 2. Shirodhara
- 3. Garshana
- 4. Gauvishtam
- 5. Vishharnam

Choose the correct option :

- (a) 1, 2, 3, 4
- (b) 3, 4, 5
- (c) 1, 2, 3
- (d) All of the above

18. Consider the following statements :

- 1. Global Tobacco & Nicotine Forum provides an open forum for diverse opinions that offer invaluable insights and the truth about modified risk products.
- 2. It was established in 2008 in Brazil

Choose the correct option :

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None

19. Consider the following statements :

- 1. The Indian Space Research Organization is planning to launch Aditya- L1 mission to study the sun early in 2020.
- 2. Lagrangian points are the locations in the core of sun which will be studied by Aditya 1

Choose the correct option

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None

20. Consider the following statements :

- 1. Global Goalkeeper Award is given by the Bill and Melinda Gates Foundation.
- 2. The annual awards, in five categories, are presented to leaders and individuals for their efforts in achieving the Sustainable Development Goals (SDGs).

Choose the correct option :

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None

## **ANSWER KEYS**

01 d 02 b 03 a 04 d 05 c 06 c 07 d 08 c 09 c 10 c  
 11 c 12 c 13 a 14 b 15 d 16 b 17 c 18 c 19 a 20 c