

1. Tata Motors has recently unveiled India's first Bio-CNG (bio-methane) bus. Chemically, bio-methane is identical to natural gas, however, natural gas is classified as a fossil fuel, whereas bio-methane is called as a renewable source of energy. This is because
 1. Nature of production process of bio-methane reduces its emissions of greenhouse gases into the air.
 2. Bio-methane is produced from fresh organic matter, unlike natural gas which is obtained from decomposition of fossils.
 Which of the above is/are correct?
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) None
2. What would happen if the Earth stopped spinning immediately?
 1. The atmosphere would come to a complete standstill instantly.
 2. Objects on top of the earth would be thrown away with great speed.
 3. Every spot in the Earth would have permanent daytime or night time all year long.
 4. It would freeze in a very short period of time.
 Select the correct answer using the codes below.
 - (a) 1, 2 and 3 only
 - (b) 2 only
 - (c) 2, 3 and 4 only
 - (d) 1 and 3 only
3. With reference to Araghatta or Persian wheels, consider the following statements.
 1. It was a water lifting device used to irrigate small fields.
 2. Babur Nama mentions the existence and use of Araghatta.
 3. There is evidence of the use of Araghatta in Kolar, Karnataka.
 Select the correct answer using the codes below.
 - (a) 1 only
 - (b) 2 and 3 only
 - (c) 3 only
 - (d) 1, 2 and 3
4. Which of these geographical features is most likely to have the lowest mean elevation?
 - (a) Plateaus
 - (b) Islands
 - (c) Deltas
 - (d) Plains
5. With reference to High-yielding varieties (HYVs) crops, consider the following statements.
 1. Such crops do not require any reliance on irrigation and fertilizers.
 2. Yield can be high in these varieties only if they are allowed to mature later than normal crops.
 Which of the above is/are correct?
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) None
6. What is/are Castor seed plants generally known for?
 1. They are a bio-indicator of pollution because they do not grow in areas where groundwater is polluted.

2. They are an exotic species to India, and were introduced by the French.
 3. They form components of many cosmetics.
 4. High percentage of ricinoleic acid in its residues has anti-microbial properties.
- Select the correct answer using the codes below.
- (a) 2, 3 and 4 only
 - (b) 3 and 4 only
 - (c) 1, 2 and 4 only
 - (d) 2 and 3 only
7. With reference to the International Date Line, consider the following statements.
1. It was established in response to Cold war situations after the second World War.
 2. It passes through the mid-Atlantic Ocean
 3. It functions as a 'line of demarcation' separating two consecutive calendar dates.
 4. It has no legal international status and countries are free to choose the dates that they observe.
- Select the correct answer using the codes below.
- (a) 1, 2 and 3 only
 - (b) 1, 3 and 4 only
 - (c) 3 and 4 only
 - (d) 1 and 2 only
8. Most of the cultivable land in India is owned by
- (a) Small and marginal farmers
 - (b) Medium and Large farmers
 - (c) Scheduled tribes
 - (d) Land share is nearly equally divided among all.
9. Rich countries are rich because
- (a) All of them have greater reserves of natural resources than any developing country.
 - (b) They have made adequate investment in the health, education and training of their workforce.
 - (c) All rich nations are democratic.
 - (d) All of the above.
10. What is 'seaspeak'?
- (a) Official language of navigators across the globe
 - (b) A standardized GPS system installed in every marine vessel
 - (c) A NGO that works towards marine sustainability
 - (d) SONAR system developed by India that works without the use of electromagnetic waves
11. Consider the following statements about Malaria and its incidence in India.
1. The majority of malaria reporting districts are in India's eastern and central parts.
 2. The Government has set malaria elimination deadline as 2027.
 3. Malaria is most commonly transmitted by a male mosquito or female sand-flies.
- Select the correct answer using the codes below.
- (a) 1 and 2 only
 - (b) 3 only
 - (c) 1 and 3 only
 - (d) 2 only
12. With reference to various initiatives of the Ministry of Human Resource Development (MHRD), consider the following statements.
1. E-pathshala is a single point repository of e-resources such as NCERT text-books and various other learning resources.
 2. Padhe Bharat Badhe Bharat focuses on digital literacy.

3. National Reading Initiative intends to organize regular book fairs in major Indian languages.
4. Saransh is an online self-review tool for schools affiliated to the Central Board of Secondary Education (CBSE).

Select the correct answer using the codes below.

- (a) 1, 2 and 3 only
 - (b) 3 and 4 only
 - (c) 1 and 4 only
 - (d) 1, 3 and 4 only
13. Which of these is the most accurate ratio of MMR and IMR numbers, with respect to India?
- (a) Six
 - (b) One by seven
 - (c) One by ten
 - (d) Four

14. Consider the following about Microplastics.

1. They are small plastic pieces less than a nanometer long.
2. Bureau of Indian Standards (BIS) has classified them as unsafe for consumer products.
3. Microbeads are a type of microplastic that are sometimes found in toothpastes.
4. If dumped in oceans, these pose a potential threat to aquatic life.

Select the correct answer using the codes below.

- (a) 1 and 4 only
 - (b) 2, 3 and 4 only
 - (c) 1 and 3 only
 - (d) 2 and 4 only
15. In case of India we have unemployment both in rural and urban areas. However, the nature of unemployment differs in both with respect to
1. Year-round availability of employment
 2. Disguised unemployment that is more prevalent in urban areas
- Which of the above is/are correct?

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

ANSWER KEYS

01 c 02 b 03 d 04 c 05 d 06 b 07 c 08 b 09 b 10 a
11 a 12 c 13 d 14 b 15 a