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1. What complex challenge does India face in the widespread adoption of geothermal energy?

- a) Lack of geothermal resources
- b) Insufficient solar radiation
- c) High upfront costs and limited technical expertise**
- d) Oversupply of conventional energy sources

2. Which organization has established India's first Geothermal field development project, and where is it located?

- a) Tata Power in Gujarat
- b) National Thermal Power Corporation in Chhattisgarh
- c) Oil and Natural Gas Corporation in Ladakh**
- d) Singareni Collieries Company Limited in Telangana

3. Consider the following geothermal sites and their location.

- 1. Puga Geothermal Field: Gujarat
- 2. Manikaran: Himachal Pradesh
- 3. Tattapani: Ladakh

How many of the above pairs is/are correctly matched?

- a) Only one**
- b) Only two
- c) All three
- d) None



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4. What unique characteristic of *Methylococcus oryzae* makes it particularly interesting for environmental applications?

- a) Its ability to grow in temperatures above 37°C
- b) Its efficiency in oxidizing methane to CO₂ and water**
- c) Its small size and spherical shape
- d) Its ability to enhance rice plant growth

5. Consider the following statements in the context of Methanotrophs and their applications.

STATEMENT 1: Methanotrophs can grow in temperatures above 50°C.

STATEMENT 2: Methanotrophs convert methane to hydrogen gas.

Which of the statements above is/are correct?

- a) Only STATEMENT 1
- b) Only STATEMENT 2
- c) BOTH STATEMENTS
- d) Neither Statements**

6. 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 1945, under the Marrakesh Agreement.
3. After WTO came into existence, General Agreement on Trade and Tariffs (GATT) ceased to exist.

How many of the above statements are incorrect?

- a) Only one
- b) Only two**
- c) All three
- d) None

7. Consider the following statements regarding Green Bonds.

1. Green bonds are used to fund environment friendly projects at lower interest rate than regular bonds.
2. World Bank becomes the first institution to issue green bonds.
3. In India, the Reserve Bank of India (RBI) will auction sovereign green bonds with a tenure of one year.



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How many of the above statements is/are correct?

- a) Only one
- b) Only two**
- c) All three
- d) None

8. Consider the following statements regarding FASTags.

1. FASTag is a pan India inter-operable Electronic Toll Collection system rolled out by Government of India.
2. It uses radio frequency identification technology.
3. New rules mandate that FASTags older than five years must be replaced.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) All three**
- d) None

9. Under the Axiom-4 mission, ISRO has collaborated with which of the following space agencies to enhance India's human space programme?

- a) Japan Aerospace Exploration Agency
- b) Roscosmos
- c) European Space Agency
- d) National Aeronautics and Space Administration**

10. A Study finds that dark patterns exist in the online space. Which of the following are kinds of dark patterns?

- Privacy deception
- Interface interference
- Drip pricing
- False urgency
- Deliberate misdirection

How many of the above options is/are correct?

- a) Only two
- b) Only three
- c) Only four
- d) All five**



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