



### 1) Which of the following statements is incorrect?

- a. In a hybrid EV, an internal combustion engine is used to produce electricity with an electrical generator.
- b. A Battery EV has no internal combustion engine and can only be charged from the grid.
- c. A plug-in hybrid EV operates solely on the internal combustion engine (ICE), with no assistance from the battery.
- d. A fuel-cell EV uses a fuel cell to produce electricity for the drive train.

**Ans. C**

**Soln.** Plug-in hybrid electric vehicles typically run on electric power until the battery is nearly depleted and then the car automatically switches over to use the Internal combustion engine.

### 2) Consider the following statements

- 1. It encrypts data and appends filenames with “.akira” extension.
- 2. It deletes Windows Shadow Volume copies on affected devices.
- 3. It uses VPN services to trick users into downloading malicious files.

**How many of the above statements are incorrect?**

- A. 1 only
- B. 2 only
- C. 3 only
- D. None of the above

**Ans. D**



### 3) How many of the below statements regarding 239AA are correct?

1. It grants Special Status to Delhi, including the establishment of an Administrator and a Legislative Assembly.
2. The Legislative Assembly of Delhi has the power to make laws on all matters in the State List or Concurrent List.
3. It was inserted in the Constitution on the recommendations of the S. Balakrishnan Committee.

- A. None
- B. Only two
- C. All three
- D. Only one

**Ans. B**

**Soln.** The Delhi Legislative Assembly can enact laws on State List or Concurrent List matters applicable to Union territories, except for police, public order, and land.

### 4) What was the primary objective of NASA's Voyager 2 spacecraft?

1. Explore the inner planets of our solar system.
2. Investigate the possibility of life on Mars.
3. Study the outer planets of our solar system.
4. Search for black holes in deep space.

How many of the above statements is/are correct?

- A. Only 1
- B. Only 2
- C. Only 3
- D. All



**Ans. A**

Soln. Statement C is correct: Voyager 2's primary objective was to study the outer planets of our solar system, including Jupiter, Saturn, Uranus, and Neptune. It provided valuable data and images during its flybys of these gas giant planets.

**5) Which of the following statements about Malawi is correct?**

1. Malawi is a landlocked country in West Africa.
2. The official language of Malawi is Swahili.
3. Lake Malawi is one of Africa's Great Lakes and is known for its unique fish species.
4. Malawi's economy is primarily based on oil and natural gas exports.

- A. 1 and 2 only  
B. 3 only  
C. 3 and 4 only  
D. 2 and 3 only

**Ans. B**