

There are no changes to the solutions/answers. Explanations have been provided for the students who have raised doubts.

In Q.5) There was a printing error in pair II of the question.

Explanation- Kindly consider the following question for future reference.

For Future Reference:

Q.5) With reference to India's defense, consider the following pairs:

Aircraft type	Description
I. Dornier-228	Maritime patrol aircraft
II. IL-76	Supersonic combat aircraft
III. C-17 Globe Master III	Military transport aircraft

How many of the pairs given above are correctly matched?

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

Ans) b

Exp) Option b is the correct answer.

India's defence forces operate a diverse fleet of aircraft, each serving specific roles such as surveillance, combat, and transportation.

Pair I is correct. The Dornier 228 is a twin-engine turboprop aircraft utilized by the Indian Navy and Coast Guard for maritime patrol, surveillance, search and rescue, and pollution control missions. Manufactured under license by Hindustan Aeronautics Limited (HAL), it is equipped with advanced sensors and communication systems tailored for maritime operations.

Pair II is incorrect. The Ilyushin Il-76 is a strategic airlifter, not a supersonic combat aircraft. Designed by the Soviet Union's Ilyushin design bureau, it serves roles such as transporting heavy machinery, aerial refueling, and emergency response. It is a four-engine turbofan aircraft capable of operating in rugged environments but lacks the speed and agility characteristic of supersonic combat aircraft.

Pair III is correct. The C-17 Globemaster III is a large military transport aircraft developed by McDonnell Douglas (now Boeing) for the United States Air Force and also operated by the Indian Air Force. It is designed for rapid strategic airlift of troops and cargo to main operating bases or forward bases in the deployment area. The aircraft is capable of performing tactical airlift, medical evacuation, and airdrops, making it a versatile asset in military logistics.

Source: UPSC CSE Pre 2025

Subject:) Science and Technology

Topic:) Defence

Subtopic:)