

Q.3. Read the following passage and answer the questions that follow. (20)

It is very nature of helicopter that is great versatility is found. To begin with, the helicopter is the fulfillment of one of man's earliest and most fantastic dreams. The dream of flying – not just like a bird – but of flying as nothing else flies or has ever flown. To be able to fly straight up and straight down – to fly forward or back or sidewise, or to hover over and spot till the fuel supply is exhausted.

To see how the helicopter can do things that are not possible for the conventional fixed-wing plane, let us first examine how a conventional plane "works". It works by its shape – by the shape of its wing, which deflects air when the plane is in motion. That is possible because air has density and resistance. It reacts to force. The wing is curved and set at an angle to catch the air and push it down; the air, resisting, pushes against the under surface of the wing, giving it some of its lift. At the same time the curved upper surface of the wing exerts suction, tending to create a lack of air at the top of the wing. The air, again resisting, sucks back, and this give the wing about twice as much lift as the air pressure below the wing. This is what takes place when the wing is pulled forward by propellers or pushed forward by jet blasts. Without the motion the wing has no lift.

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Question:-

1. Where is the great versatility of the helicopter found?

The versatility of the helicopter is found that a person have a dream to fly in the air. He want to make a helicopter and fly without distraction. So, he make it possible and fulfil his dream.

2. What is the dream of flying?

After making a helicopter, the dream of flying is to fly in the air without any restriction. When the helicopter is flying in the air, nothing else to be feared in the sky.

3. What does the wing of the Conventional aircraft do?

Now, there is to be needed how conventional aircraft is different from helicopter. The conventional

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aircraft works on the basis of the shape of wings. The wings of the aircraft deflect air. The curved wings get the air and make an deflection angle, then the aircraft pushdown. When air against the direction of wings then the aircraft lift up. So, in this way, the aircraft works.

4. What does the curved upper surface of the wing do?

The curved upper surface of the wing exert pressure due to the lack of air. air show resistance and air pressure increase below the wings and wings lift up as much they can.

5. What gives the wings twice as much lift?

Due to the lift up of wings, wings is moved forward by propellers or jet blasts. If the wings are not moving then the lifting of wings is not possible.