

Subject: **AVIATION**

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**QUESTION**

1. Explain the role of the manufacturer in the aircraft industry.

2. Discuss the challenges faced by aircraft manufacturers in the current market.

3. How do aircraft manufacturers ensure safety and reliability?

4. What are the key factors influencing aircraft manufacturing costs?

**ANSWER**

1. The manufacturer's role in the aircraft industry is to design, develop, and produce aircraft. They are responsible for ensuring that the aircraft meets the required specifications and standards. The manufacturer also provides technical support and training to the airlines and operators.

2. Aircraft manufacturers face several challenges in the current market, including increasing competition, rising costs of raw materials, and the need for innovation to meet the growing demand for more efficient and sustainable aircraft.

3. Aircraft manufacturers ensure safety and reliability through rigorous testing and certification processes. They also implement strict quality control measures and maintain a strong focus on safety throughout the entire production cycle.

4. Key factors influencing aircraft manufacturing costs include the cost of raw materials, labor, and overheads. Additionally, the complexity of the aircraft and the scale of production also play a significant role in determining the overall cost.