



## Mains Practice Question

### Case Study

You are the captain of a space exploration mission to Mars. Six months into the journey, a critical life support system malfunctions. After careful analysis, your engineer determines that the system can be repaired, but it requires a specialized part that can only be 3D printed using a rare material. There's enough of this material on board to either print the part or to continue producing essential medication for one of your crew members with a chronic condition.

If you choose to repair the life support system, all crew members will survive the journey, but the one crew member will likely suffer severe health complications. If you continue producing the medication, that crew member will remain stable, but the faulty life support system significantly increases the risk of mission failure and potential loss of all lives on board.

The crew member in question is your most experienced engineer, crucial for the mission's success on Mars. Earth is too far away to provide immediate assistance, and your decision must be made within 24 hours. Your choice will have profound implications for the mission, the lives of your crew, and potentially the future of space exploration.

1. What are the ethical dilemmas involved in this case?
2. How should a leader balance the ethical principles of non-maleficence and beneficence in this critical situation?
3. What lessons can be learned from this scenario to improve contingency planning and resource allocation?

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Answer will be published shortly.

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