Defence & Security · GS - III

Explain the significance of quasi-ballistic missile technology in modern warfare. How can indigenous development of such technologies strengthen India's defence preparedness?

EXAM YEAR	PAPER	SUBJECT
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MARKS	WORD LIMIT
10	~150 words

Answer Hint

Quasi-ballistic trajectory, mid-course manoeuvrability, missile defence challenges, precision strike, solid propulsion, DRDO, indigenous research, strategic deterrence, defence manufacturing

Model Answer

Introduction

Modern warfare increasingly relies on precision-guided weapons and advanced missile technologies. Quasi-ballistic missiles combine features of conventional ballistic trajectories with manoeuvrability during flight.

Significance in Modern Warfare

Enhanced Manoeuvrability: Their ability to change flight paths can make interception more difficult for conventional missile defence systems.

Operational Flexibility: They provide military forces with additional options for precision strikes against strategically important targets.

Technological Advancement: Their development requires progress in propulsion, navigation, guidance and control systems.

India's Defence Preparedness

Indigenous programmes such as DRDO's Pralay contribute to technological self-reliance, strengthen domestic defence manufacturing and reduce dependence on foreign suppliers. They also support the development of specialised research and industrial capabilities.

Way Forward

India should invest in advanced guidance systems, testing infrastructure, indigenous components and collaboration between research institutions and defence industries.

Conclusion

Quasi-ballistic missile technology represents an important dimension of modern defence capabilities. Indigenous research and responsible deployment can strengthen India's strategic preparedness.

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