Science & Technology · GS - III

Discuss the need for regulating advanced artificial intelligence. How can governments balance AI safety with technological innovation?

EXAM YEAR	PAPER	SUBJECT
DAILY PRACTICE 17/10/2026	GS - III	Science & Technology

MARKS	WORD LIMIT
10	~150 words

Answer Hint

Artificial Intelligence, AI ethics, algorithmic accountability, independent testing, data privacy, cybersecurity, innovation, responsible AI governance.

Model Answer

Introduction

Artificial Intelligence is transforming healthcare, education, industry and governance. However, increasingly powerful AI systems also create risks related to cybersecurity, privacy, misinformation and misuse.

Need for AI Regulation

1. Safety: Testing can identify harmful capabilities before advanced models are deployed.
2. Accountability: Clear rules can establish responsibility for AI-related harm.
3. Transparency: Disclosure of safety assessments can improve public trust.
4. National security: Regulation can address risks such as cyberattacks and misuse of AI for developing dangerous technologies.

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Way Forward

Governments should establish risk-based standards, independent evaluations, data-protection safeguards and clear accountability mechanisms. Regulations should focus on demonstrable risks rather than impose unnecessary restrictions on all AI applications. International cooperation can help develop common safety principles while preserving innovation.

India can strengthen its responsible AI governance framework through research, institutional capacity and industry collaboration.

Conclusion

Effective AI governance must ensure that technological progress remains safe, accountable and inclusive without unnecessarily restricting innovation.

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