Science & Technology · GS - III

The misuse of Artificial Intelligence to fabricate official documents and manipulate digital processes poses new challenges to India's cyber security and institutional credibility. Examine the challenges and suggest measures to strengthen digital trust and governance.

EXAM YEAR	PAPER	SUBJECT
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MARKS	WORD LIMIT
10	~150 words

Answer Hint

AI-enabled forgery, deepfakes, digital authentication, judicial impersonation, cybercrime investigation, intermediary accountability, institutional verification, digital literacy, regulatory safeguards.

Model Answer

Introduction

Artificial Intelligence has expanded digital capabilities but also increased the sophistication of cyber fraud. Forged judicial documents and fraudulent electronic communications can undermine public trust and disrupt governance.

Major Challenges

- **Institutional impersonation:** Fake court orders and official communications can exploit public confidence in constitutional institutions.
- **AI-enabled forgery:** Synthetic documents, manipulated images and fraudulent QR codes make visual verification unreliable.

- **Cybersecurity risks:** Weak authentication and inadequate verification systems enable unauthorised digital actions.
- **Governance concerns:** Such fraud can affect regulatory decisions, financial transactions and institutional credibility.

Measures Required

- Establish secure digital verification systems using digital signatures and official document repositories.
- Strengthen coordination among law-enforcement agencies, courts and cybersecurity institutions.
- Develop AI-assisted forensic capabilities to detect manipulated digital evidence.
- Improve intermediary compliance, cybercrime reporting and public awareness.
- Promote responsible AI governance with clear accountability and safeguards.

Conclusion

India's digital transformation must be accompanied by strong authentication, institutional coordination and technological accountability. Building digital trust is essential for secure and credible e-governance.

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