

**Q1.**

Underline the core tenets of agrarianism. How does this philosophy align with J.C. Kumarappa's concept of the 'Economy of Permanence' in India? Comment.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q1.**

Question 1 - continued

Do not write  
in this  
margin.

**Q2.**

Critically analyze why state governments frequently bypass constitutionally mandated Metropolitan Planning Committees (MPCs) in favor of executive-led apex bodies. How does this affect democratic decentralization?

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q2.**

Question 2 - continued

Do not write  
in this  
margin.

**Q2.**

Question 2 - continued

Do not write  
in this  
margin.

**Q3.**

Analyse the institutional role of the Research Designs and Standards Organisation (RDSO) in standardizing railway safety. How does technology-led governance reduce human errors in public transport?

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q3.**

Question 3 - continued

Do not write  
in this  
margin.

**Q4.**

Underline the role of risk-based automated approvals in reducing bureaucratic red tape and improving the Ease of Doing Business in India.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q4.**

Question 4 - continued

Do not write  
in this  
margin.

**Q5.**

Analyse the governance challenges in integrating private AI stacks with public service delivery. How can the IndiaAI Mission ensure equitable access to digital public goods?

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q5.**

Question 5 - continued

Do not write  
in this  
margin.

**Q5.**

Question 5 - continued

Do not write  
in this  
margin.

**Q6.**

Critically analyse why sports governing bodies in India should be brought under the ambit of the Right to Information Act. How does this promote transparency?

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q6.**

Question 6 - continued

Do not write  
in this  
margin.

**Q6.**

Question 6 - continued

Do not write  
in this  
margin.

**Q7.**

Taking example of backyard ornamental aquaculture, examine how the sector can drive gender-inclusive growth and empower rural women through Self-Help Groups.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

Q7.

Question 7 - continued

Do not write  
in this  
margin.

**Q8.**

Explain how the 'SECURE' framework helps India assert its strategic autonomy within Eurasian partnerships while managing bilateral contradictions.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q8.**

Question 8 - continued

Do not write  
in this  
margin.

**Q9.**

Critically discuss how the extraction of lunar resources under the Artemis Accords can be reconciled with the non-appropriation principle of the Outer Space Treaty.

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q9.**

Question 9 - continued

Do not write  
in this  
margin.

**Q9.**

Question 9 - continued

Do not write  
in this  
margin.

**Q10.**

Discuss in the light of recent reforms, how has the transition from Uniform Reference Period (URP) to Modified Mixed Reference Period (MMRP) impacted poverty estimation accuracy in India?

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q10.**

Question 10 - continued

Do not write  
in this  
margin.

**Q11.**

How can the promotion of ornamental fisheries under PMMSY diversify rural livelihoods and boost export earnings? Critically discuss with suitable examples.

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q11.**

Question 11 - continued

Do not write  
in this  
margin.

**Q11.**

Question 11 - continued

Do not write  
in this  
margin.

**Q12.**

Critically discuss why compound semiconductors are vital for electric vehicles and how India can develop domestic capabilities in ultra-pure chemical inputs.

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q12.**

Question 12 - continued

Do not write  
in this  
margin.

**Q12.**

Question 12 - continued

Do not write  
in this  
margin.

**Q13.**

Critically examine how open-weights models differ from open-source software and explain their implications for indigenous technology development in India.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q13.**

Question 13 - continued

Do not write  
in this  
margin.

**Q14.** Point out how the Mixture-of-Experts (MoE) architecture reduces computational costs in AI. Why is energy-efficient computing critical for developing sustainable sovereign AI?

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q14.**

Question 14 - continued

Do not write  
in this  
margin.

**Q15.**

How does the Traditional Knowledge Digital Library act as a defensive shield against bio-piracy? Critically analyse the challenges in protecting traditional medicinal knowledge under modern patent regimes.

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q15.**

Question 15 - continued

Do not write  
in this  
margin.

**Q16.** Critically examine how gene editing differs from transgenesis. Why are automated biofoundries essential for accelerating agricultural climate resilience in India? Explain.

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q16.**

Question 16 - continued

Do not write  
in this  
margin.

**Q16.**

Question 16 - continued

Do not write  
in this  
margin.

**Q17.**

Analyse why fragmented municipal jurisdictions fail to address trans-boundary environmental challenges like urban flooding and waste management. How can an apex coordinating authority resolve these ecological crises?

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q17.**

Question 17 - continued

Do not write  
in this  
margin.

**Q17.**

Question 17 - continued

Do not write  
in this  
margin.

**Q18.** Point out the negative externalities of industrial monoculture. How can agroecology mitigate these ecological crises while ensuring long-term soil health? Critically discuss.

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q18.**

Question 18 - continued

Do not write  
in this  
margin.

**Q18.**

Question 18 - continued

Do not write  
in this  
margin.

**Q19.** Examine how the creation of the Chief of Defence Staff helps achieve seamless jointness. Why is integrating the three services critical for future theatre commands?

Word limit: 150 words

**10 marks**

Do not write  
in this  
margin.

**Q19.**

Question 19 - continued

Do not write  
in this  
margin.

**Q20.** Critically analyse how grey-zone warfare challenges India's traditional security paradigm. What comprehensive strategy should the state adopt to mitigate these non-attributable threats?

Word limit: 250 words

**15 marks**

Do not write  
in this  
margin.

**Q20.**

Question 20 - continued

Do not write  
in this  
margin.

**Q20.**

Question 20 - continued

Do not write  
in this  
margin.