

Q1.

Explain how Panini's Ashtadhyayi laid the foundation for modern formal language theory. Why is his grammatical system considered a precursor to computer programming languages?

Word limit: 150 words

10 marks

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Q1.

Question 1 - continued

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Q2.

Explain how the defensive architecture of Western Himalayan hill forts adapted to rugged terrains and local materials. Why is their preservation vital for understanding regional medieval history?

Word limit: 150 words

10 marks

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Q2.

Question 2 - continued

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Q3.

Examine how schemes like PM Vishwakarma can structurally transform traditional, caste-associated occupations into viable modern enterprises, thereby promoting social mobility.

Word limit: 250 words

15 marks

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Q3.

Question 3 - continued

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Q3.

Question 3 - continued

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Q4.

Critically examine why administrative control of quasi-judicial bodies by their parent ministries violates Article 50. How can institutional autonomy be secured?

Word limit: 250 words

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Q4.

Question 4 - continued

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Q4.

Question 4 - continued

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Q5.

Critically analyse how the 'rarest of rare' doctrine under Article 21 has guided capital sentencing in India. How does the Bharatiya Nyaya Sanhita, 2023 address this judicial discretion?

Word limit: 250 words

15 marks

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Q5.

Question 5 - continued

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Question 5 - continued

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Q6.

Point out the key hurdles in managing executive clemency in India. How can institutionalizing transparent timelines for mercy petitions reform criminal justice governance?

Word limit: 150 words

10 marks

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Q6.

Question 6 - continued

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Q7.

Critically discuss why the dual-tier classification of monuments under the AMASR Act often leads to neglect of regional heritage. How can state-level conservation agencies be strengthened?

Word limit: 250 words

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Q7.

Question 7 - continued

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Q7.

Question 7 - continued

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Q8.

Critically examine how the institutional framework of IN-SPACE addresses the challenges of third-party liability and regulatory compliance for private space launches under international conventions.

Word limit: 250 words

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Q8.

Question 8 - continued

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Question 8 - continued

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Q9.

Critically examine how administrative hurdles in implementing the Model Tenancy Act have hindered the growth of formal institutional rental housing for the urban poor.

Word limit: 250 words

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Question 9 - continued

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Question 9 - continued

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Q10. Point out how post-war transitional authorities can balance the rights of victims with societal reconciliation. Why are symbolic trials often insufficient for true social justice?

Word limit: 150 words

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Q10.

Question 10 - continued

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Q11.

Why does cervical cancer remain a major public health challenge in rural India? Critically examine how indigenous, low-cost screening technologies can bridge the existing healthcare equity gap.

Word limit: 250 words

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Q11.

Question 11 - continued

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Q11.

Question 11 - continued

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Q12. In the light of cross-border sharing of animal germplasm, how can India leverage the Nagoya Protocol to safeguard its sovereign rights over indigenous genetic resources? Critically examine.

Word limit: 250 words

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Q12.

Question 12 - continued

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Q12.

Question 12 - continued

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Q13.

Critically discuss how India's asymmetric e-visa policy serves as a strategic tool of diplomacy and soft power influence, rather than just a travel facilitation measure.

Word limit: 250 words

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Q13.

Question 13 - continued

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Q13.

Question 13 - continued

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Q14.

Critically discuss how the principle of Universal Jurisdiction challenges state sovereignty in prosecuting international war crimes. Why does its enforcement remain highly politicised globally?

Word limit: 250 words

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Question 14 - continued

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Q14.

Question 14 - continued

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Q15.

Explain why rapid screening technologies are vital for real-time food safety surveillance. How do they complement fixed reference laboratories in managing contamination outbreaks?

Word limit: 150 words

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Q15.

Question 15 - continued

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Q16. Point out how Artificial Intelligence-assisted diagnostics can transform preventive healthcare in rural India. What are the key technological challenges in its widespread integration? Explain.

Word limit: 150 words

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Q16.

Question 16 - continued

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Q17.

Critically Analyse how DNA barcoding using mitochondrial markers has revolutionized taxonomic identification and the conservation of cryptic endangered species.

Word limit: 150 words

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Q17.

Question 17 - continued

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Q18. Explain the technical significance of the National Numbering Plan. How does structured numbering resource allocation prevent network congestion and identity spoofing?

Word limit: 150 words

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Q18.

Question 18 - continued

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Q19.

Explain how deploying blockchain and QR-code-based traceability systems can resolve the challenges of counterfeiting and origin verification in digital GI marketplaces.

Word limit: 150 words

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Q19.

Question 19 - continued

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Q20. Underline the significance of the 'wise use' principle of the Ramsar Convention in managing threatened lacustrine ecosystems in India.

Word limit: 150 words

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Q20.

Question 20 - continued

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