

WRAP Exams · wrapexams.com

Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

ask@wrapexams.com · +91 85951 84903 · wrapexams.com

Q5(b)

Bio-genetic variability of Indian tribes

UPSC Civil Services Mains 2016 · Anthropology GS 2 · 10 marks · Tribal situation in India

6.1 Tribal situation in India-Bio-genetic variability, linguistic and socio-economic characteristics of the tribal populations and their distribution.

Core demand of the question

- Write a note on bio-genetic variability of Indian tribes
- Keep the note to a 10-mark length of about 150 words

Revision summary

Indian tribes vary genetically by region and language family.

They are not Risley's or Guha's single tribal type.

Local castes may be closer than distant tribes.

Siwalik apes are not tribal ancestors.

Health policy must follow local variation.

Introduction

Indian tribes are genetically diverse. They are not one blood, and they do not match **Risley's** tribal race.

Body**What variability shows**

- Andaman, Himalayan, Central Indian, and southern forager groups differ in markers, language, and morphology.
- Austroasiatic, Dravidian, Tibeto-Burman, and Indo-Aryan speaking tribes do not share one gene package.
- **Guha's** types over-grouped that spread. Field serology and later genetics split it again.

What it does not show

- Variability is not a ranking of civilised and primitive stocks.
- Caste neighbours often share more with local tribes than distant tribes share with each other.
- **Siwalik** fossils are deep prehistory, not a tribal pedigree.

Policy use

- Health and **sickle-cell** programmes need local data. A single tribal biology is a bad plan.

Flow diagram

Tribal genetic spread -> Regional clusters

Risley one race -> Fails

Tribal genetic spread -> Local health data

Conclusion

Bio-genetic variability of Indian tribes is high and regional. It refutes one tribal race and warns against one-size medical or origin myths.

Facts & figures

Andaman Islanders

A genetically distinctive cluster, not a key to all Indian tribes.

H. H. Risley

Forced tribes into racial boxes that variability contradicts.

Language families

Four-family speech map that already predicts biological mix, not unity.

Sickle-cell

A local tribal health pattern that shows why one biology fails.

WRAP Exams · Write. Read. Analyse. Practice. ·

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-2/2016/bio-genetic-variability-of-indian-tribes/> ·

ask@wrapexams.com · wrapexams.com