

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(c)

Fission track dating method and its applications.

UPSC Civil Services Mains 2025 · Anthropology GS 1 · 10 marks · Principles of Prehistoric Archaeology. Chronology

(a) Principles of Prehistoric Archaeology. Chronology: Relative and Absolute Dating methods.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-1/2025/fission-track-dating-method-and-its-applications/>

Fission-track dating

A radiometric method based on counting etched tracks from spontaneous fission of uranium-238 in a mineral or glass.

Fleischer, Price and Walker

The scientists most closely associated with developing fission-track dating as a usable geochronological method.

Apatite and zircon

Common minerals for fission-track work. They also record cooling history because tracks anneal above a closure temperature.

Tephra dating

Volcanic ash layers associated with fossils or tools can be dated by fission tracks when suitable glass or mineral grains are present.

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

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-1/2025/fission-track-dating-method-and-its-applications/>
· ask@wrapexams.com · wrapexams.com