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Q8(b)

Describe the causes of structural abnormalities of chromosomes with suitable examples.

UPSC Civil Services Mains 2023 · Anthropology GS 1 · 15 marks · Numerical and structural aberrations (disorders).

(a) Numerical and structural aberrations (disorders).

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-1/2023/describe-the-causes-of-structural-abnormalities-of-chromosomes-with-suitable-examples/>

Cri-du-chat

A deletion of the short arm of chromosome 5, named for the infant cry and associated developmental findings.

Philadelphia chromosome

t(9;22) creating a BCR-ABL fusion, the classic structural change of chronic myeloid leukaemia.

Robertsonian translocation

Fusion of acrocentric long arms; 14;21 translocation is a cause of translocation Down syndrome.

22q11 deletion

A frequent microdeletion syndrome with cardiac, palatal, and immune features.

Unequal crossing-over

A meiotic mechanism that produces complementary deletions and duplications at repeated sequences.

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