

Sl. No. : 657

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Unique Paper Code : 215503

Paper : ANTH 515 Biological Diversity in Human Populations

Course : B.Sc. (H) Anthropology

Semester : V

Time : 3 hours

Max. Marks : 75

**Attempt any five questions. All questions carry equal marks.**

1. Define race and discuss its biological concept.
2. Is it true that the whole humanity can be divided into three major racial divisions? Give the classification, physical features and distribution of Caucasoids.
3. What is 'Natural Selection'? How does it help us in understanding human evolution?
4. Under what conditions does the Hardy-Weinberg Equilibrium Model hold true? If a deviation from expected frequencies is found, what does that suggest?
5. Discuss in brief the distribution of ABO alleles in Indian populations.
6. How does the distribution of the sickle cell trait indicate the action of natural selection? Describe the specific evolutionary mechanisms involved in this 'balanced polymorphism'.
7. Discuss Risley's classification of the ethnic elements of Indian populations. Discuss its merits and demerits.
8. What is meant by racial criteria? Describe various biological criteria generally used for racial classification.
9. Write **short notes** on any *two* of the following:
  - a. Rh incompatibility
  - b. Transferrins
  - c. Genetic drift
  - d. Dermatoglyphic patterns on fingers