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**3 (Sem-6/CBCS) ANT HE 2/3**

**2023**

**ANTHROPOLOGY**

(Honours Elective)

**Answer the Questions from any one Option.**

**OPTION-A**

*(Human Genetics)*

Paper : ANT-HE-6026

**OPTION-B**

*(Demographic Anthropology)*

Paper : ANT-HE-6036

*Full Marks : 60*

*Time : Three hours*

***The figures in the margin indicate full marks for the questions.***

*Contd.*

**OPTION-A**

**(Human Genetics)**

Paper : ANT-HE-6026

1. Answer the following questions :  $1 \times 7 = 7$

- (a) What is DNA polymorphism?
- (b) Write the full form of PCR.
- (c) What is karyotype?
- (d) What is SNPs?
- (e) How many strands make up a DNA double helix?
- (f) What is holandric gene?
- (g) What is aneuploidy?

2. Answer the following questions in brief :

$2 \times 4 = 8$

- (a) Define epigenetics.
- (b) Write the chromosomal constitution of Klinefelter's and Turner's syndrome.

(c) Distinguish between genotype and phenotype.

(d) What do you mean by genome?

3. Write short notes on **any three** of the following :  $5 \times 3 = 15$

- (a) DNA replication
- (b) Haplotypes and haplogroups
- (c) Genetic mapping
- (d) Non-Mendelian inheritance
- (e) Role of tRNA

4. Answer **any three** of the following :

$10 \times 3 = 30$

- (a) Discuss the role of Y chromosome and mtDNA model in modern Homo sapiens origin.
- (b) What is Pedigree? Write down the importance of Pedigree in Human genetics.

- (c) Discuss about causes and features of Down's syndrome.
- (d) Differentiate between transient and balanced genetic polymorphism. Illustrate your answer with suitable examples from human populations.
- (e) Briefly discuss the salient features of Watson and Crick model of DNA.
- (f) Discuss briefly about the molecular evolution and genomic diversity in Indian population.
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## OPTION-B

### (Demographic Anthropology)

Paper : ANT-HE-6036

1. Answer the following questions in short :  
1×7=7
- (a) Who is considered as the father of Demography ?
- (b) In which year the National Population Policy was introduced in India ?
- (c) Which is the most populated state in India ?
- (d) What is fertility ?
- (e) What do you mean by birth rate ?
- (f) What is infant mortality rate ?
- (g) What is the full form of W.H.O ?
2. Answer the following questions in brief :  
2×4=8
- (a) What is crude birth rate ? How is it calculated ?
- (b) Who was John Graunt ? Name *one* book authored by him.

(c) What are *five* stages of demographic transitive theory?

(d) Mention *two* needs of population policy in India.

3. Write short notes on : (**any three**)  $5 \times 3 = 15$

(a) Causes of migration

(b) Population census

(c) Sample survey

(d) Impact of population growth in India

(e) Family planning in India

4. Answer **any three** of the following questions :  $10 \times 3 = 30$

(a) Define demography and discuss the importance of demographic study in Anthropology.

(b) Mention the factors affecting fertility in a developing country like India.

(c) What is mortality? Discuss the causes of decline of mortality rate in India.

(d) Discuss the population theory of Thomas Malthus.

(e) Discuss in detail the Biological theory of Herbert Spencer.

(f) What is urbanization? Discuss the impact of urbanization on the migration of tribal group.