Total number of printed pages-8

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

2022

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.

OPTION-A

(Human Genetics)

Paper: ANT-HE-6026

- 1. Answer any seven questions of the following: 1×7=7
 - (a) What is DNA sequencing?
 - (b) What are microsatellites?
 - (c) Who first used the term gene?
 - (d) What is VNTR?
 - (e) What is the site of protein synthesis?
 - (f) What is the first step of translation?
 - (g) Which mRNA nitrogenous base is partner to the DNA base adenine?
 - (h) Is haplotype a gene?
 - (i) What is primary constriction in a chromosome?
 - (j) What is complementary base pairing?

- 2. Attempt any four questions of the following: 2×4=8
 - (a) What is a codon?
 - (b) Define Human Genetics.
 - (c) Which bases are purines and which forms the pyrimidines?
 - (d) What are single nucleotide polymorphism (SNPs)?
 - (e) What is mtDNA? Write its significance.
 - (f) What is genetic mapping?
 - (g) What is a strand of DNA made up of?
 - (h) What is non-Mendelian inheritance?
- 3. Attempt any three questions of the following: 5×3=15
 - (a) Classify the types of chromosomes on the basis of position of centromere.
 - (b) What is meant by molecular evidence of evolution?
 - (c) Discuss about peopling of Indian subcontinent with the evidence from Y-chromosome.
 - (d) What is a genetic code ? Write its properties.

- (e) What is karyotyping? Write its application.
- (f) Define LOD score. Write its significance.
- (g) Write a short note on Down's syndrome.
- (h) Write a short note on molecular evolution and genetic diversity in Indian population.
- 4. Attempt any three from the following: 10×3=30
 - (a) What is the difference between tRNA and mRNA?
 - (b) How mtDNA and Y-chromosome are considered to be good for detecting distant ancestry?
 - (c) Describe the semi-conservative way of DNA replication.
 - (d) Define epigenetics. Can epigenetics be inherited? Elaborate the factors that affect epigenetics.
 - (e) Describe pedigree analysis as a method of genetic study. Elaborate the importance of drawing a pedigree to study inheritance of any character.

- (f) What is chromosomal basis of genetic disorder? Discuss different types of chromosomal basis of genetic disorder with example.
- (g) What is DNA replication? Discuss the processes of DNA replication.
- (h) What is DNA polymorphism? Discuss its different types.

OPTION-B

(Demographic Anthropology)

Paper: ANT-HE-6036

- 1. Answer the following questions in short:

 (any seven) 1×7=7
 - (a) In which year National Population Policy was introduced in India?
 - (b) Who authored the book "An essay on Principles of Population"?
 - (c) Who proposed the 'Demographic transition theory'?
 - child dying between birth and exactly 5 years of age, expressed 1000 live births.

 (Fill in the blank)
 - (e) What is the full form of NRHM?
 - (f) Which state of India is the most populated?
 - (g) World population day is observed on (Fill in the blank)
 - (h) What is the full form of AYUSH?
 - (i) In which year National Health Policy was first introduced in India?
 - (j) According to Census Report, 2011 the population growth rate of India from 2001 to 2011 was ______per cent. (Fill in the blank)

- 2. Answer the following questions in brief: (any four) 2×4=8
 - (a) Distinguish between fertility and fecundity.
 - (b) Define immigration and emigration.
 - (c) What is maternal mortality rate? How is it calculated?
 - (d) What is Janani Suraksha Yojana (JSY)?
 - (e) What is Family Planning Programme?
 In which year National Programme for Family Planning was launched in India?
 - (f) Who was John Graunt? What was his famous work published in 1662?
 - (g) Write two causes of population explosion in India.
 - (h) What are the four phases of population growth in India?
- 3. Write short notes on : (any three) 5×3=15
 - (a) Civil Registration System
 - (b) Demography
 - (c) Biological theory of population
 - (d) Population density in India
 - (e) Impact of urbanisation on tribal populations in Assam
 - (f) Causes of migration

- (g) National Family Health Survey (NFHS).
- (h) Sex ratio in India.
- 4. Answer **any three** of the following questions: 10×3=30
 - (a) Define Demographic Anthropology.
 Discuss the relationship of
 Demography, Population Studies and
 Anthropology. 2+8=10
 - (b) Discuss the population theory of Thomas R Malthus.
 - (c) What is differential fertility? Write the factors of differential fertility in Indian societies.
 - (d) What are the major sources of demographic data? Discuss population census as a source of demographic data in India.

 2+8=10
 - (e) Write an essay on distribution of tribal and non-tribal population in India.
 - (f) What is population policy? Write a note on National Population Policy of India.

 2+8
 - (g) Discuss the theory of Demographic transition.
 - (h) Discuss the importance of population studies in Anthropology.