2019

ANTHROPOLOGY

(Major)

Paper : 3.1

(Physical Anthropology)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks : 1×7=7

(a) Total genetic constitution of an individual is called _____.

(b) Independent assortment of alleles according to Mendel's law do not take place in case of _____.

(c) In apes the facial portion is _____ than the cranium.

(d) A character that can be expressed in both homozygous and heterozygous state is known as _____.

(e) The concept of gene was first introduced by _____ in 1909.

(f) Nasal Index is calculated by the formula _____.

(g) *Descent of Man* published in 1871 was written by _____.

2. Answer the following questions in brief : 2×4=8

(a) Name the bones of the human leg.

(b) Define median and mode.

(c) Write any two characteristic features of the Caucasoid racial group.

(d) Name the curvatures of human vertebral column.

3. Answer any *three* of the following questions in brief : 5×3=15

(a) Describe the characteristic features of the human femur.

(b) What according to A. C. Haddon are the major racial elements in India?

(c) Elaborate on the Mendel's law of segregation.

(d) Define race and racism with examples across the world.

(e) What is frequency distribution table and why is it made?

4. Answer any *three* of the following questions : 10×3=30

(a) Give a critical appraisal of the racial classification of the population of India by S. S. Sarkar.

(b) Differentiate between mitosis and meiosis cell division. Describe the mitotic cell division.

(c) Describe the structure of a human chromosome.

(d) Elaborate on the physical characteristics and distribution of the Mongoloid racial group.

(e) Justify the changes that occurred in the human skull due to assumption of erect posture.

(f) What is arithmetic mean? Calculate the mean value of the following frequency distribution table : 3+7=10

Class Interval	*Frequency*
62·1–63·5	4
63·6–65·0	5
65·1–66·6	6
66·6–68·0	11
68·1–69·5	9
69·6–71·0	6
71·1–72·5	5
72·6–74·0	4

★★★