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3 (Sem-6) ANT M1

2020

**ANTHROPOLOGY**

(Major)

Paper : 6.1

**(Physical Anthropology)**

Full Marks : 60

Time : Three hours

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

1. Give very short answers to the following questions : 1×7=7

(a) Who proposed the term genetics ?

(b) What is gerontology ?

(c) What is the Sewall Wright effect also known as ?

(d) Name one sex-limited trait.

Contd.

(e) What is meant by codominance ?

(f) What is velocity curve ?

(g) What is meant by random mating ?

2. Give short answers to the following questions :  $2 \times 4 = 8$

(a) What is gene flow ?

(b) What is identical and fraternal twin ?

(c) Name *four* traits with multifactorial inheritance.

(d) Name the *two* major periods of growth.

3. Answer **any three** of the following questions :  $5 \times 3 = 15$

(a) Discuss the mode of inheritance of Autosomal Dominant traits.

(b) Write how heredity and environment influence human skin colour.

(c) Define growth. Distinguish between growth and development.

- (d) Write the differences between sex-limited and sex-controlled traits.
- (e) Briefly discuss mutation as a mechanism of human variation.

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

- (a) What do you mean by pedigree method? Write a note on the pedigree method of studying heredity.
- (b) Explain the Hardy-Weinberg Law. Discuss its importance in population genetics.
- (c) What are the different methods of studying growth? Discuss elaborately.
- (d) What is human genetics? Why are anthropologists interested in the study of human genetics?
- (e) What are sex-linked genes? Discuss the  $x$ -linked dominant inheritance in man.