

**2019**

**MSc**

**2<sup>nd</sup> / Semester Examination**

**ANTHROPOLOGY**

**PAPER – ANT-202**

**Full Marks : 50**

**Time : 2 Hours**

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer **FOUR** questions from the following :

4x2

- (a) Define Concordance.
- (b) What is antigen ?
- (c) Write the function of melanin .
- (d) Write the symbols of Monozygotic twin and Dizygotic twin used in pedigree .
- (e) What is lethal gene ?
- (f) What is polygenic inheritance ?
- (g) Define mutation. Give an example of point mutation .
- (h) For what do the following Karyotype stand -  
XO,                      XXX

2. Answer **FOUR** questions from the following :

4x4

- (a) Write the merits and demerits of pedigree method.
- (b) Define agglutination with suitable example .
- (c) How the first law of Mendel is different from the second law ?
- (d) Briefly discuss the reasons of race mixture .
- (e) What do you know about sex controlled inheritance ?
- (f) Write the importance of mitosis cell division .
- (g) How RNA is different from DNA ?
- (h) What do you know about Down's syndrome ?

3. Answer **TWO** questions from the following :

8x2

- (a) Write the racial classification proposed by H.H Risley for the Indian subcontinent.
- (b) Describe the utility of twin genetics method in Anthropology.
- (c) Briefly discuss about autosomal inheritance pattern in man with suitable pedigree .
- (d) " We may be genetically predisposed to a disease, but it is the environment that does matter " --- illustrate with example(s).

**( Internal Assessment – 10 marks )**