2022

M.Sc.

2nd Semester Examination ANTHROPOLOGY

PAPER-202

HUMAN GENETICS AND HUMAN VARIATION

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.

Group - A

Answer any four questions.

4×2

1. Describe the events taking place during interphase.

	35
2. What is Go phase of cell cycle?	2
3. Differentiate between primary and secon	dary
race.	2
4. Highlight some of the major characteristics	used
in racial classification.	2
5. Define Siamese twins.	2
6. Give two examples of numerical chromosomal aberrations with their chromosomal constitue	omal ents. 2
Group - B	
Answer any four questions.	×4
7. What are the basic difference between mei-	osis
and mitosis?	4
8. Describe the Mendel's laws of inheritance v	with
suitable examples.	4

9. Describe Indian racial classification as given by

either S. S.			Sarkar or B. S. Guha.				4	
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10.	Outlin	e the	main	points	of the	AAPA	Stater	nen
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11. Write the karyotype of a normal female following Denver's system.

4

12. Write a short note on transcription.

Group - C

Answer any two questions.

2×8

13. Discuss briefly the stages of mitosis cell division.

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- 14. What are the criteria of autosomal recessive inheritance with suitable examples?
- 15. What is quantitative trait? Human head shape may be used as a criterion of measuring population diversity Illustrate the statement with suitable examples.
 2+6

16. "Hybridization is an important factor for race formation" - Discuss with suitable examples. 8

[Internal Assessment - 10 Marks]