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MANE-001**MASTERS IN ANTHROPOLOGY****(MAAN)****Term-End Examination****December, 2021****MANE-001 : HUMAN GENETICS***Time : 3 Hours**Maximum Marks : 100*

Note : Answer any **five** questions. Attempt at least two questions from each Section. All questions carry equal marks. Word limit for **20** marks question is **500** words and for **10** marks question is **250** words.

Section—A

1. What is Inheritance Pattern ? Discuss the various inheritance patterns in man. 20
2. Discuss Mendel's laws of inheritance. 20

3. Define Human Genetics. Give a detailed account on any *three* branches of Human Genetics with suitable diagrams. 20
4. What is Consanguinity ? Discuss different forms of consanguinity in Indian populations. 20
5. Write short notes on any **two** of the following :

2×10=20

- (a) Down syndrome
- (b) Y-linked inheritance
- (c) Red-green colourblindness
- (d) DNA

Section—B

6. What is genetic screening and genetic counselling ? Discuss them in detail. 20
7. What is Polymorphism ? Discuss different forms of DNA polymorphism. 20
8. What is Bioinformatics ? Briefly discuss any *three* tools used for Bioinformatics research. 20

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9. What is Human Genome Project ? Briefly discuss various applications of Human Genome Project. 20

10. Write short notes on any *two* of the following :
2×10=20

- (a) Ethical, Legal and Social Issues (ELSI) in Genetic Research
- (b) Chromosomal Translocation
- (c) Gene Therapy
- (d) Mitochondrial DNA and Y-Chromosomal Polymorphism