2021 M.Sc. Third Semester CORE – 09

ANTHROPOLOGY

Course Code: MANC 3.11 (Human Genetics & Variation)

	tal Mark: 70 ne: 3 hours	Pass Mark:	28
An.	swer any <u>five</u> questions.		
1.	Discuss in brief the historical perspective of studying hun	nan variation.	14
2.	"Race is a fallacy". Elaborate.		14
3.	Describe the adaptive role of vitamin D in human popular	tion.	14
4.	Point out the evidences of human evolution from Y chron haplogroups.	nosomal DNA	A 14
5.	Distinguish between autosomal dominant and recessive in appropriate examples.	nheritance wit	h 14
6.	What do you understand by X-inactivation? Explain the mechanism of X-inactivation. Also cite some examples to support Lyon hypothesis. 14		
7.	About 9% of all the individuals in a population are Rh negative. What is the frequency of marriage in which erythroblastosis may occur in offspring?		
8.	Write note on any two: (i) Mutation and genetic variation	7×2=	=14

(ii) High altitude adaptation

- (iii) Genetic variation between population
- (iv) Sex controlled trait
- (v) Polymorphism
