Inheritance

1. De	fine follow	wing terms.	
	I.	Homozygous	
	II.	Heterozygous	
	III.	Gene expression	
	IV.	Phenotype	
	V.	Genotype	
2. Fill	in the bla	anks.	
I.		act as the genetic materials in organisms.	
II.	The dou	The double helix structure of DNA was discovered by	
III.	The spe	cific base sequence in a DNA molecule responsible for a particular characteristic is called	
IV.	A pair o	of chromosomes that are arranged to a sequence of characteristics with the same length and	
	width a	re called	
V.	Gene lin	ne linkage was discovered by	
VI.	The ge	nes that present in the same chromosome which are not segregated independently ar	
	called		
VII.	Transm	ransmission of inherited characteristics to the next generation is known as	
VIII.	There are pairs of autosomal chromosomes in a human cell.		
IX.	There are pairs of sex chromosomes in human.		
3.Wri	te short aı	nswers .	
I.	Which o	chromosomes determine the sexuality of a human?	
II.	Write th	ne pair of sex chromosomes of a male and a female separately.	
Ш		the reason for occurring genetic disorders due to sex linked inheritance?	

IV.	Write 2 genetic disorders due to sex linked inheritance.
V.	What is the most abundant genetic disorder among human?
VI.	Write 2 disorders occur due to gene mutation.
VII.	What is genetic engineering?
V 11.	what is genetic engineering:
VIII.	How the genotype of an organism can be altered?
IX.	What are the fields that uses genetic engineering?