

Work Sheet: 01 Biology (Chapter-12: Heredity in Organisms and Evolution) Class: X

ne of the student:	
Chromosome:	
Chromosome is a thread-like structure in	which a DNA molecule is tightly packaged
within the nucleus.	
➤ On the basis of function, chromosome can	be divided into two types. Such as—
1) Autosome &	
2) Sex chromosome	
► In the cells of human body, the number of	of chromosome is 46, i.e. 23 pairs. Among
them 22 pairs or total number of 44 are	autosomes and the remaining pair is sex
chromosome.	
Autosomes play roles in physiological, e	embryonic and the formation of body of
organisms which have no part in determini	ing sex.
Q. What is autosome?	
A chromosome concerned in determining	ng the sex of an organism is called sex
chromosome.	
	1 1
Q. Write two differences between autosome as	nd sex chromosome.
Autosome	Sex chromosome

➤ In women, in the diploid cells both sex	chromosomes are X i.e. XX.
➤ In case of men of the two chromosome	
➤ Both the chromosomes are long in str	ucture, rod shaped but chromosome Y is little
shorter than the chromosome X.	
Q. Write two differences between X and Y	chromosome.
X chromosome	Y chromosome
At the time of development of agg or a	yum in woman majosis occurs and every egg
possesses an X chromosome. In case of half number of sperms contain X chromosome.	ovum in woman, meiosis occurs, and every egg a man at the time of the formation of sperms, romosome and other half number of sperms
possesses an X chromosome. In case of half number of sperms contain X chromosome. An egg can be fertilized with either one	a man at the time of the formation of sperms, romosome and other half number of sperms of the sperm type X or Y.
possesses an X chromosome. In case of half number of sperms contain X chromosome. An egg can be fertilized with either one	a man at the time of the formation of sperms, romosome and other half number of sperms
possesses an X chromosome. In case of half number of sperms contain X chromosome. An egg can be fertilized with either one Zygote can be having both the chromothe other one Y.	a man at the time of the formation of sperms, romosome and other half number of sperms of the sperm type X or Y.
possesses an X chromosome. In case of half number of sperms contain X chromosome. An egg can be fertilized with either one the other one Y. The baby, who is born having both the baby.	a man at the time of the formation of sperms, romosome and other half number of sperms of the sperm type X or Y. Somes as type X, or can be having one X and