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| **Across****2.** 13) The structure in the nucleus that appeared double and divide just before each cell division **4.** 4) Genetic disorder due to the presence of an additional copy of X chromosomes resulting in a karyotype of 47, XXY **7.** 5) Sudden change results in the alteration of DNA sequence and result in the genotype and phenotype of an organism**8.** 9) Specific name of pea plant **10.** 11) Who proposed the graphical representation to calculate the probability of all genotypes of offspring in a genetic cross **11.** 12) Well known Indian breed of cows in Punjab **12.** 7) Scientist who gave the experimental verification of chromosomal theory of inheritance **13.** 8) Genetic name of fruit fly **14.** 2) Inborn error of metabolism inherited as autosomal recessive trait  | **Down****1.** 6) Term used for 2 different types of gametes in terms of sex chromosome **3.** 1) Sex linked recessive disease when in the clotting of blood is affected **5.** 3) Term for segregation of chromatids during cell division cycle results in the gain or loss of chromosome(s) **6.** 10) The discrete unit that controls the characters and occurs in pairs **9.** 14) Which amino acid substitutes Glutamic acid in sickle cell anaemia, an autosome recessive trait disorder  |