

BCM SCHOOL BASANT AVENUE DUGRI LUDHIANA XII BIOLOGY ASSIGNMENT ANSWER KEY	
1	d
2	b
3	Assertion correct but reason is wrong
4	<u>A mutagen is a physical, chemical or biological agent that causes mutation by altering the genetic material. A physical factor that can be a mutagen is radiation, such as X-rays, gamma rays or UV rays. An example of a point mutation is sickle cell anemia, which is caused by a single base substitution in the gene for hemoglobin⁵ (iii) Two causes of frame-shift mutation are insertion or deletion of one or more nucleotides in the DNA sequence These mutations change the reading frame of the gene and affect the amino acid sequence of the protein²</u>
5	Fruit wall Scutellum The part of the embryo that gives rise to the root and shoot Perisperm
6	Dichogamy and self – incompatibility.
7	Short life span and easy to maintain
8	DNA dependent DNA polymerase and DNA dependent RNA polymerases.