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1. Point mutation involves

- a) deletion
- b) insertion
- c) duplication
- d) change in single base pair**

2. Transition type of gene mutation is caused when

- a) GC is replaced by TA
- b) CG is replaced by GC
- c) AT is replaced by CG
- d) AT is replaced by GC**

3. Gene mutation occurs at the time of

- a) DNA repair
- b) DNA replication**
- c) Cell division
- d) RNA transcription

4. The action of ultraviolet radiation on DNA to induce mutation is the

- a) formation of thymine dimers**
- b) methylation of base pairs
- c) deletion of base pairs
- d) addition of base pairs

5. X rays causes mutation by

- a) deletion**
- b) transition
- c) transversion
- d) base substitution

6. Which of the following have been developed by mutation?

- a) Knol knol variety of castor
- b) Aruna variety of barley
- c) Erectiferum variety of cabbage
- d) Reimei variety of Rice**

7. Normally DNA molecule has A-T, G-C pairing. However these bases can exist in alternative valency status, owing to rearrangements called

- a) point mutation
- b) frame shift mutation
- c) analogue substitution
- d) tautomerisational mutation**

8. In mutational event, when adenine is replaced by guanine, it is case of

- a) transition**
- b) transcription
- c) transversion

d) frame shift mutation

9. Muller was first to produce induced mutations in ---- by exposing them to X rays

a) *Paramecium*

b) *Arabidopsis*

c) ***Drosophila***

d) *Xenopus*

10. Which of the following is not ionising radiations are

a) X rays

b) **UV rays**

c) cosmic rays

d) alpha rays