

NEET PRINCIPLES OF INHERITANCE AND VARIATION — MUTATION —
PYQS

Max. Marks: 40

Questions: 10

Section A (MCQ) — 10 questions

Q.1 The mechanism that causes a gene to move from one linkage group to another is called

[NEET 2016 (Phase 2)]

- (1) crossing-over (2) translocation
(3) duplication (4) inversion

Scan or tap for the
full solution

Q.2 The movement of a gene from one linkage group to another is called

[AIPMT 2015 (Cancelled)]

- (1) inversion (2) translocation
(3) duplication (4) crossing over

Scan or tap for the
full solution

Q.3 Which one of the following is a wrong statement regarding mutations ?

[AIPMT 2012 (Mains)]

- (1) UV and gamma rays are mutagens
(2) Deletion and insertion of base pairs cause frame-shift mutations
(3) Cancer cells commonly show chromosomal aberrations
(4) Change in a single base pair of DNA does not cause mutation

Scan or tap for the
full solution

Q.4 Mutations can be induced with :

[AIPMT 2011 (Prelims)]

- (1) Gamma radiation (2) Infra Red radiations
(3) IAA (4) Ethylene

Scan or tap for the
full solution

Q.5 Haploids are more suitable for mutation studies than the diploids. This is because:

[AIPMT 2008]

- (1) all mutations, whether dominant or recessive are expressed in haploids
(2) mutagens penetrate in haploids more effectively than in diploids
(3) haploids are reproductively more stable than diploids
(4) haploids are more abundant in nature than diploids

Scan or tap for the
full solution

Q.6 In the hexaploid wheat, the haploid (n) and basic (x) numbers of chromosomes are:

[AIPMT 2007]

- (1) $n = 21$ and $x = 14$ (2) $n = 21$ and $x = 21$
(3) $n = 7$ and $x = 21$ (4) $n = 21$ and $x = 7$

Scan or tap for the
full solution

Q.7 After a mutation at a genetic locus the character of an organism changes due to the change in :-

[AIPMT 2004]

- (1) Protein synthesis pattern
(2) RNA transcription pattern
(3) DNA replication
(4) Protein structure

Scan or tap for the
full solution

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

[AIPMT 2004]

- (1) Frameshift mutation (2) Transition
(3) Transversion (4) Transcription

Scan or tap for the
full solution

Q.9 Change in sequence of nucleotide in DNA is called as -

[AIPMT 2002]

- (1) Recombination (2) Mutation
(3) Mutagen (4) Translation

Scan or tap for the
full solution

Q.10 If a diploid cell is treated with colchicine then it becomes :- [AIPMT 2002]

- (1) Tetraploid (2) Monoploid
(3) Diploid (4) Triploid

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	
Ans.	2	2	4	1	1	4	4	2	2	1	