

# NEET Sample Paper for Botany

Q.1 Identify the incorrect statement.

- (1) Gause's competitive exclusion principle may be true if resources are limiting, but not otherwise.
- (2) Parasites evolved special adaptations such as low reproductive capacity, development of digestive system etc.
- (3) Competition is best defined as a process in which the fitness of one species is significantly lower in the presence of another species.
- (4) The Mediterranean orchid *Ophrys* employs 'sexual deceit' to get pollination done by a species of bee.

Q.2 A common test to find the genotype of hybrid is by;

- (1) Crossing of F2 progeny with male parent.
- (2) Crossing of F2 progeny with a female parent.
- (3) Crossing of F1 progeny with dominant parent.
- (4) Crossing of F1 progeny with recessive parent.

Q.3 Unicellular root hairs arise from:

- (1) Zone of elongation
- (2) Zone of maturation
- (3) Meristematic zone
- (4) Root cap

Q.4 Statement I: In an ecosystem, abiotic factors include the living components.  
Statement II: In an ecosystem biotic factors include the non-living components.

- (1) Both Statement I and Statement II are correct.
- (2) Statement I is correct but Statement II is incorrect.
- (3) Statement I is incorrect but Statement II is correct.
- (4) Both Statement I and Statement II are incorrect.

Q.5 Polymorphism in DNA sequence is the basis of which of the following?

- A. Genetic mapping of the human genome.
- B. DNA fingerprinting.
- C. Similarities among human beings.

- (1) Only A
- (2) Only B
- (3) Only A and B

(4) Only B and C

