

Chapter - 8

How Do Organisms Reproduce

(Assertion and Reasoning Questions)

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a)** Both A and R are true and R is the correct explanation of A.
- (b)** Both A and R are true but R is not the correct explanation of A.
- (c)** A is true but R is false.
- (d)** A is false but R is true.

Q.1. Assertion(A) : Asexual reproduction is a primitive type of reproduction.

Reason (R) : Asexual reproduction involves only mitotic cell division.

Q.2. Assertion(A) : Spores are unicellular bodies.

Reason (R) : The parent body simply breaks up into smaller pieces on maturation.

Q.3. Assertion(A) : Clones are offspring of an organism formed by asexual reproduction.

Reason (R) : Clones have exact copies of DNA as their parent.

Q.4. Assertion(A) : Colonies of yeast multiply in sugar solution.

Reason (R) : Sugar is made of sucrose which provides energy for sustaining all life activities.

Q.5. Assertion(A) : Pollen grains from the carpel stick to the stigma of stamen.

Reason (R) : The fertilised egg cells grow inside the ovules and become seeds.

Q.6. Assertion(A) : The offspring produced by sexual reproduction is likely to adjust better in environmental fluctuation.

Reason (R) : During the fusion of gametes there is mixing of genetic material from two parents.

Q.7. Assertion(A) : Growth hormone stimulates the growth of different body parts.

Reason (R) : Gonadotropins stimulate the production of sex hormones.

Q.8. Assertion(A) : Testes lie in penis outside the body.

Reason (R) : Sperms require temperature lower than the body temperature for development-X-X-X-

ANSWER KEY

Q.1 : (a)

Q.2 : (c)

Q.3 : (b)

Q.4 : (a)

Q.5 : (d)

Q.6 : (a)

Q.7 : (b)

Q.8 : (d)