How Do Organisms Reproduce?

Assertion & Reason Type Questions

Directions: Each of the following questions consists of two statements, one is Assertion (A) and the other is Reason (R). Give answer:

- a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- b. Both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of Assertion (A).
- c. Assertion (A) is true but Reason (R) is false.
- d. Assertion (A) is false but Reason (R) is true.
- **Q1. Assertion (A):** Amoeba always produces two daughter amoebae while Plasmodium divides into many daughter cells.

Reason (R): Amoeba undergoes binary fission while Plasmodium undergoes multiple fission.

(CBSE 2020)

Answer: (a) Both Assertion (A) and Reason are true and Reason (R) is correct explanation of Assertion (A).

Q2. Assertion (A): When a bacterium divides into two, and the resultant two bacteria divide again, the four bacteria produced would be almost similar.

Reason (R): DNA copying involves small inaccuracies in the reproduction process.

(CBSE 2023)

Answer: (b) Both Assertion (A) and Reason are true, but Reason (R) is not the correct explanation of Assertion (A).

Q3. Assertion (A): Regeneration is getting a full organism back from its body parts.

Reason (R): Hydra and Planaria show regeneration.

Answer: (b) Both Assertion (A) and Reason are true, but Reason (R) is not the correct explanation of Assertion (A).







Q4. Assertion (A): The transfer of pollen grains from the anther of a stamen to the stigma of a carpel is called pollination.

Reason (R): Pollination is done by insects, birds, wind and water.

Answer: (a) Both Assertion (A) and Reason are true but Reason (R) is not the correct explanation of Assertion (A).

Q5. Assertion (A): Probability of survival of an organism produced through sexual reproduction is more than that of organism produced through asexual mode.

Reason (R): Variations provide advantages to individual for survival.

(CBSE SQP 2023-24)

Answer: (a) Both Assertion (A) and Reason (R) are true and Reason (R) is correct explanation of the Assertion (A).

Q6. Assertion (A): Testes are located outside the abdominal cavity in the scrotum.

Reason (R): Because sperm formation requires lower temperature than the normal body temperature.

(CBSE 2020)

Answer: (a) Both Assertion (A) and Reason are true and Reason (R) is correct explanation of Assertion (A).

Q7. Assertion (A): The uterine line in human females becomes thick and spongy every month.

Reason (R): The lining breaks and comes out through the vagina as blood and mucus if fertilisation does not occur.

Answer: (b) Both Assertion (A) and Reason are true, but Reason (R) is not the correct explanation of Assertion (A).

Q8. Assertion (A): The embryo gets nutrition from the mother's blood with the help of a special tissue called placenta.

Answer: (b) Both Assertion (A) and Reason are true but Reason (R) is not the correct explanation of Assertion (A).







Q9. Assertion (A): Condom protects a person from STDs.

Reason (R): Condom prevents the sperms from meeting the ovum by acting as a barrier.

Answer: (b) Both Assertion (A) and Reason are true but Reason (R) is not the correct explanation of Assertion (A).

Q10. Assertion (A): Vasectomy is a surgical method of contraception.

Reason (R): In vasectomy, woman's oviduct are tied, blocked or cut.

Answer : (c) Reason (R) is false because in vasectomy, small portion of the sperm duct is cut or tied properly.

Q11. Assertion(A): Asexual reproduction is a primitive type of reproduction.

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

Answer: (a)

Q12. Assertion(A): Spores are unicellular bodies.

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

Answer: (c)

Q13. Assertion(A): Clones are offspring of an organism formed by asexual reproduction.

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

Answer: (b)

Q14. Assertion(A): Colonies of yeast multiply in sugar solution.

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

Answer: (a)

Q15. 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.

Answer: (d)





Q16. 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.

Answer: (a)

Q17. Assertion(A): Growth hormone stimulates the growth of different body parts.

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

Answer: (b)

Q18. 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: (d)

