

HOME ASSIGNMENTS

1. Assertion (A) : DNA copying ~~leads~~ is necessary during reproduction.

Reason (R) : DNA copying leads to the transmission

Ans. DNA copying is necessary during reproduction because it leads to the transmission of characters from parents to offsprings and brings about variation.

Therefore, Both assertion (A) & reason (R) are true and reason is the correct explanation of assertion (A)

2. Assertion (A) : Amoeba reproduces by fission.
Reason (R) : All unicellular organisms reproduce by asexual methods.

Assertion is correct & reason is the correct explanation of assertion. Amoeba is a unicellular animal. It reproduces by the process of asexual reproduction. Fission is an asexual reproduction that is common in most of the unicellular organisms.

3. Assertion (A) : Plasmodium reproduces by multiple fission.

Reason (R) : Multiple fission is a type of asexual reproduction.

Both assertion (A) & the Reason (R) are true & Reason is the correct explanation of the Assertion.

4. Which of the following organisms do not depend on reproduction to exchange genetic information -

a) animals

b) plants

c) Bacteria

d) Fungi

5. By which method, asexual reproduction occurs in Amoeba?

Fission.

7. Differentiate between mitosis & meiosis.

| Meiosis Mitosis | Meiosis | Mitosis |
|---|---------|---|
| Each Meiosis is a type of cell division that results in the | | Mitosis is the type of cell division that results in the formation of two |

In the formation of four daughter cells each with half the number of chromosomes as the parent cell.

- Each chromosome replicates to form genetically identical sister chromatids

- It reproduces through asexual mode of reproduction

daughter cells each with the same no. and kind of chromosomes as the parent cell.

- Chromosomes not yet visible but DNA has been duplicated or replicated.

- It reproduces through sexual mode of reproduction