

HOME ASSIGNMENT

1. Variations that confer an advantage to an individual organism only will survive in a population. Justify.

Ans- The great advantage of variation to a species is that it increases the chances of its survival in changing environment. For ex - the accumulation of heat resistant variation in some bacteria will ensure its survival even when the temperature in its environment rises too much due to a heat wave. On the other hand the bacteria which did not have this variation withstand heat would not survive.

2. Illustrate the following with the help of suitable diagrams.

(i) Binary fission in an Amoeba

(ii) Multiple fission in Amoeba

Ans- P.T.O

3. What is reproduction? What are its two types? Which one of the two confers new characteristics on the offspring and how?

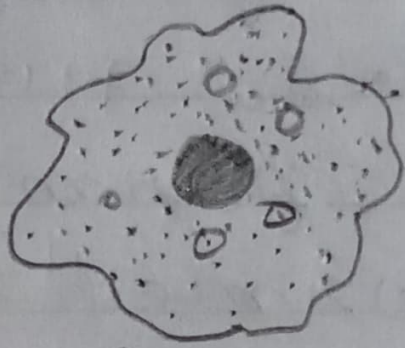
Ans- Reproduction is the process of producing new individuals by the same species.

Two types of reproduction are:-

- (i) Sexual reproduction
- (ii) Asexual reproduction

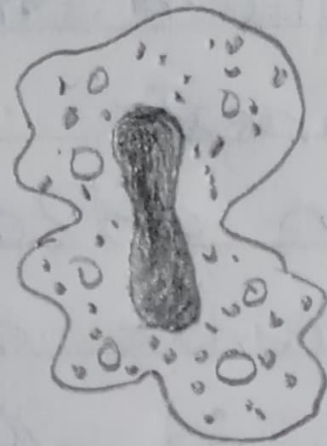
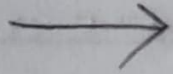
Sexual reproduction confers new characteristic on the offspring.

(i) Binary fission in a amoeba



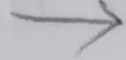
①

Parent amoeba



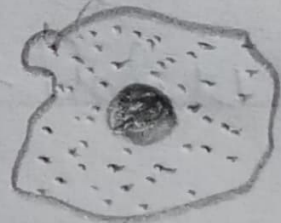
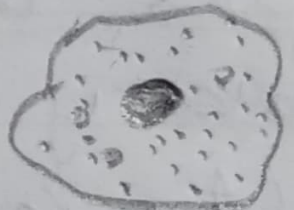
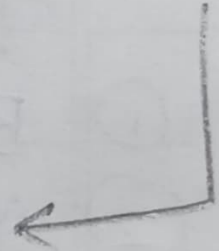
②

Elongation
of nucleus



③

Division
of
nucleus and
cytoplasm



④

Two
daughter
cells

(ii) Multiple Fission in Amoeba

