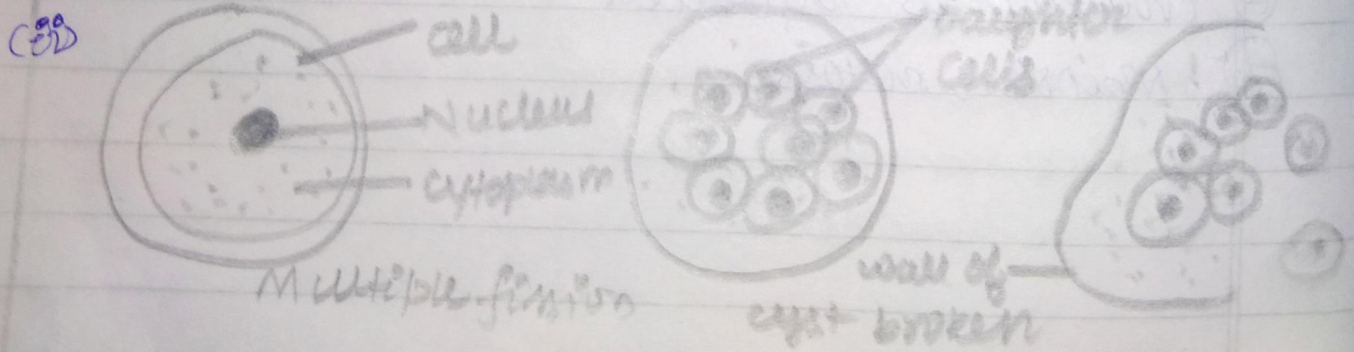
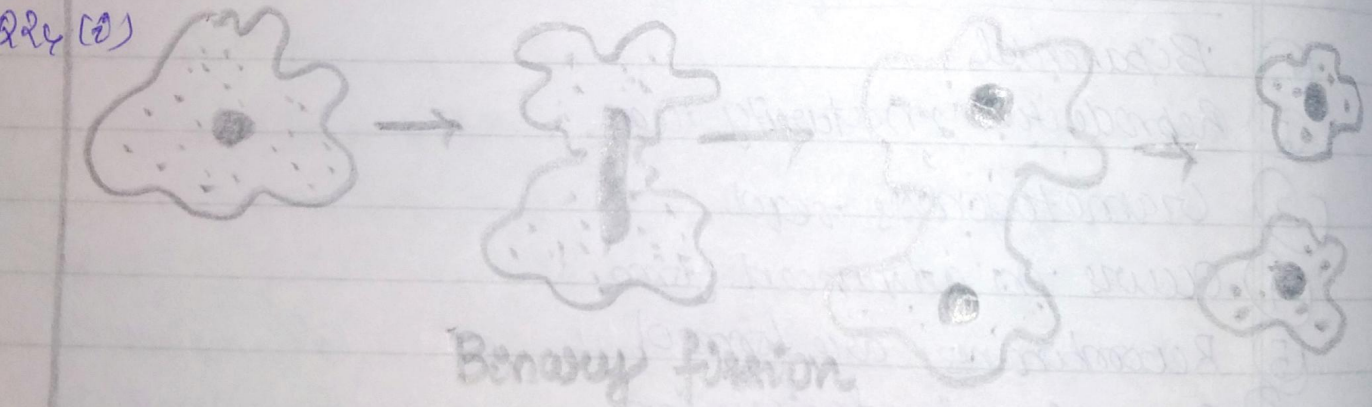


## Homework

Q1: "variations that confer an advantage to an individual organism only will survive in a population." Justify

ans - There are chances that niches can change due to reasons beyond the control of the organisms. Under such conditions any alteration in the particular kind of niche is surely going to hit the consistent population. The population of species may be wiped out due to sudden alteration of niche. However, a few individuals of the population of a species may survive the changed niches which have undergone variation in their features due to variations in DNA copying mechanism. These variations will help them to survive in a population.





Q3) What is reproduction? What are its two types? Which one of the two confers new characteristics on the offsprings and how?

Ans \* Reproduction can be defined as the production of new generation of individuals of the same species that are physically independent of their parents.

\* There are two types of reproduction +

→ Asexual reproduction

→ Sexual reproduction

\* The sexual mode of reproduction confers new characteristics on the offsprings. These variations are generated due to the process of combination of DNA belonging to two different individuals during meiosis. These variations are usually observed in sexual mode of reproduction but not in asexual mode.