

HW (Dt- 29/7/21)

(Q1) (a) Each piece of planaria regenerates into new planaria when gets cut into many pieces

(b) when bryophyllum leaf falls on the wet soil some buds come out through the leaf and its notches develop into new plants.

(c) when the sporangia of rhizopus burst upon maturation, it releases spores which germinate into new mycelium in moist conditions.

(Q2) (i) Binary fission
→ In this the division of one organism into two similar identical organism occur

→ Here, the ~~nucleus~~ nucleus divides first then the cytoplasm divides

Multiple fission
In this the division of one organism into multiple organism occurs.

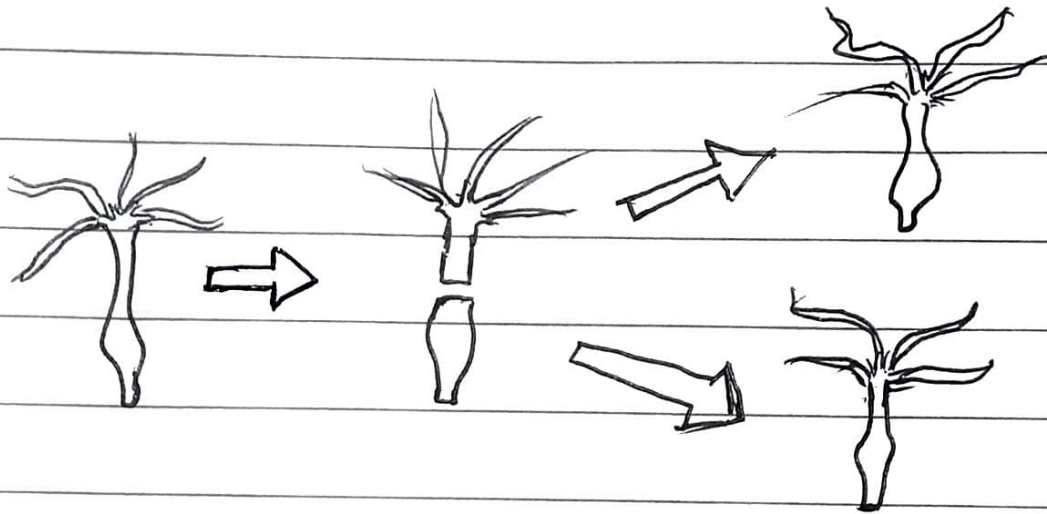
→ The nucleus first divides repeatedly producing many nuclei and many daughter cells.

one organism that reproduce by multiple fission is plasmodium

(ii) → New individuals can be produced who have identical quality as their parent

→ desirable characteristics present in the fruit can be maintained.

(3) (i)



(ii) Totipotent cells are used by multicellular organisms to regeneration.