

Date - 26/04/2021

Zoology Hons (B.Sc-I)

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LOCOMOTORY ORGANELLES AND LOCOMOTION IN OF PROTOZOA.

(A) LOCOMOTOR ORGANELLES.

1. PSEUDPODIA: — These are temporary structures formed by the streaming flow of the cytoplasm. Sarcodines move with these structure, the basis of the form and structure, the pseudopodia are of the following four types: —

(a) LOBPODIA: — These are lobe-like pseudo-podia with broad and rounded ends. as in amoeba. These are composed of both the ectoplasm as well as endoplasm. The lobopodia move by pressure flow mechanism.

(b) FILOPODIA: — These are more or less filamentous pseudopodia, usually tapering from base to the pointed tip, as in Euglena, unlike lobopodia, the filopodia are composed of ectoderm only. Sometimes they may be simple or complex network.

(c) RETICULOPDIA: — The reticulopodia (Rhopodia or myxopodia) are also filamentous. The filaments branch and fuse form a network. This type occurs in ~~form~~ foraminiferans (eg - Globigerina). Reticulopodia display two way flow of ectoplasm.

(d) AXOPODIA: — These are more or less straight and radiating pseudopodia,

Consisting of a cytoplasmic sheath enveloping an axial filament, the former being almost fluid in consistency, like reticulopodia. The amoeboid also display two-way flow of cytoplasm.

Amoeboid are characteristic of helminths, such as *Neomonas* and *Actinophrys*.

Fig: Types of pseudopodia — (A) Lobopodia of *Amoeba proteus*. (B) Filopodia of *Euglypha*. (C) Reticulopodia of *Globigerina*. (D) Axopodia of *Actinophrys* Sol.

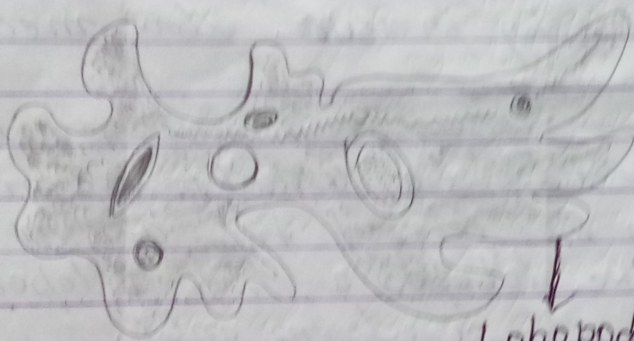
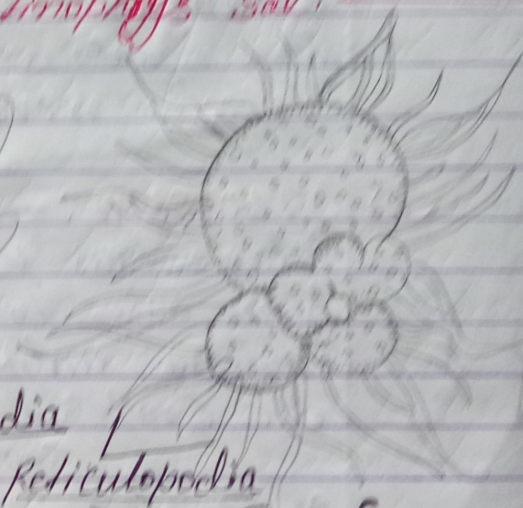
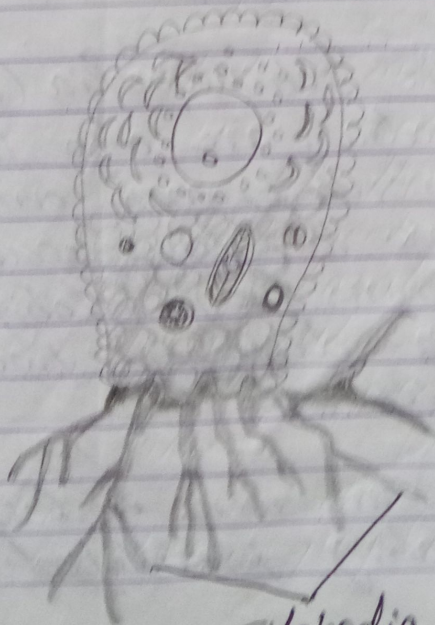


Fig - A



Reticulopodia

Fig - C



Filopodia



Axopodia