

SUBJECT:BIOLOGY

CHAPTER:3

CHAPTER NAME: REPRODUCTION IN HUMANS

PERIOD-1

CHANGING YOUR TOMORROW

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Introduction-

What is reproduction?

Reproduction is one of the seven life processes.

All living things reproduce.

Humans use sexual reproduction to produce their young.

In order to do this, the two parents (male and female) have different reproductive systems and organs that produce different sex cells.

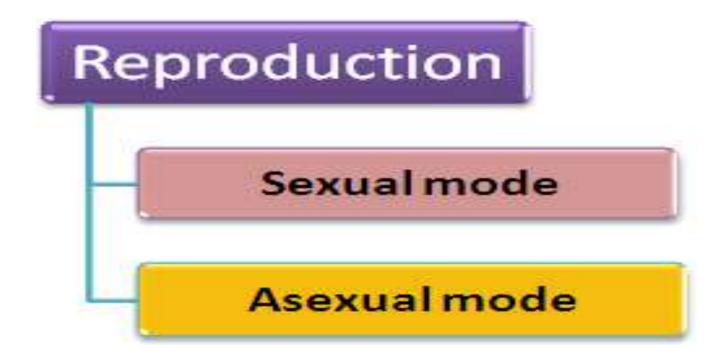








Types of reproduction

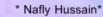


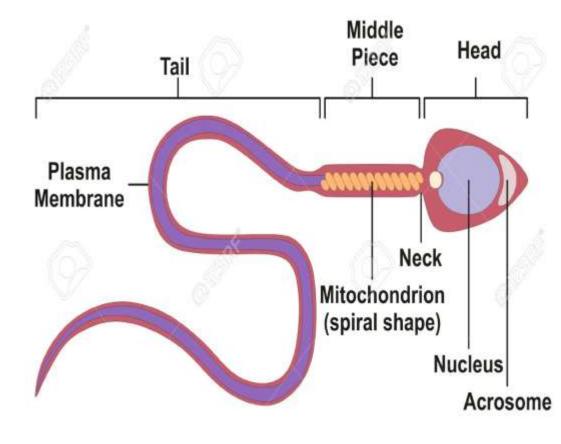


Reproductive cells(Gametes)

Adaptation of sperm cells to its function.

- A sperm cell has a long tail to help it swim to the egg.
- mid-piece which contains large amount of mitochondria to release energy needed to make the tail move.
- The head of the sperm also contain enzymes to break down and digest the zona pellucida of the egg so that it can fertilize it.

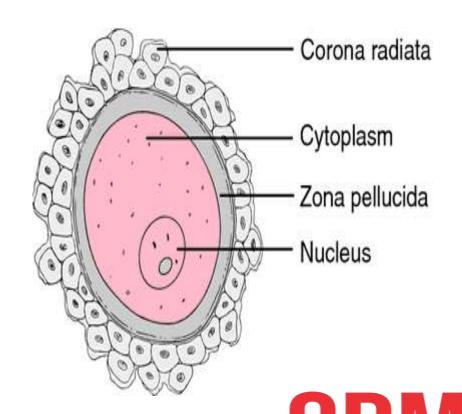






EGG / OVA

- Female sex cells are produced by the ovaries.
- The largest cell in the human body, about the size of a grain of sand.
 - One egg is released about every 28 days.
 - Each egg has 23 chromosomes.
 - Eggs are first released during puberty and are no longer released once a woman goes through menopause.

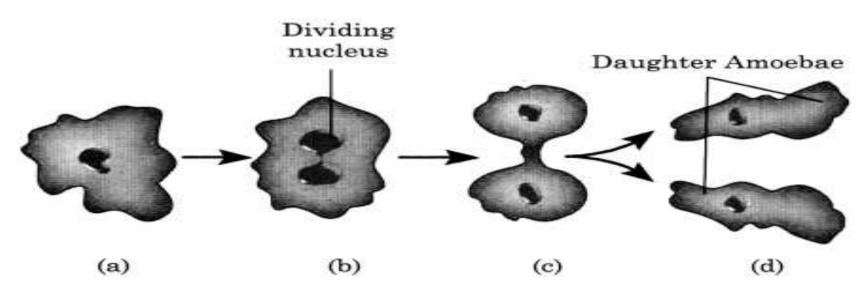


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Asexual Reproduction in animals

Binary Fission:

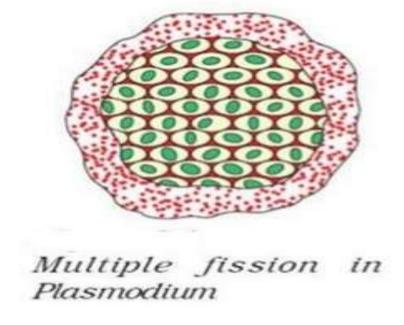


Binary fission in Amoeba



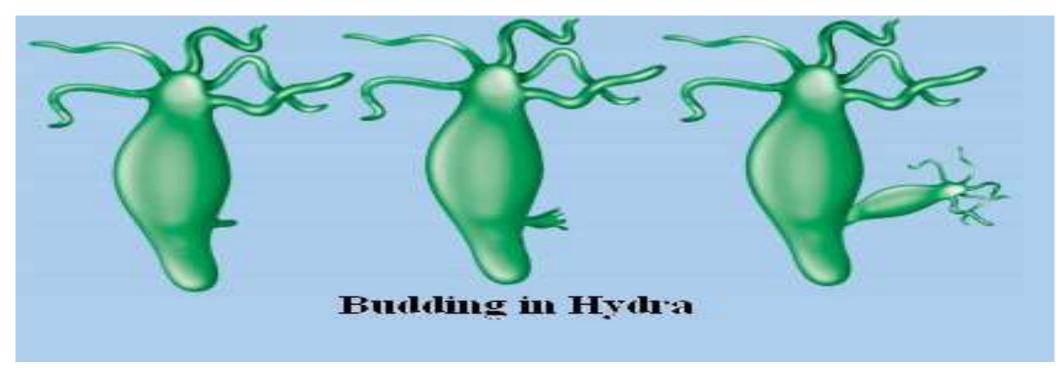
Multiple fission

- In multiple fission, a single cell divides into many daughter cells simultaneously. Examples:
- Plasmodium and Amoeba





Budding in hydra-





Regeneration in planaria.

Regeneration

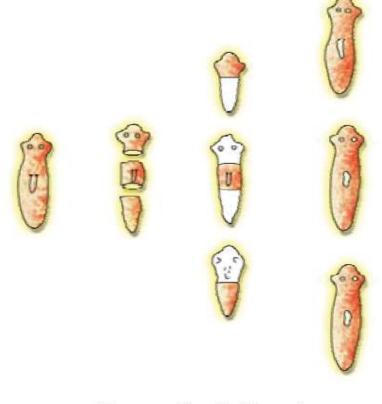
In this form, the body of the parent breaks into distinct pieces, each of which can produce an offspring.



Pieces of coral broken off in storms can grow into new colonies.



A new starfish can grow from one detached arm.



Regeneration in Planaria



https://www.youtube.com/watch?v=hTC1eNTBXvE

THANKING YOU ODM EDUCATIONAL GROUP.

