REPRODUCTION IN ORGANISMS

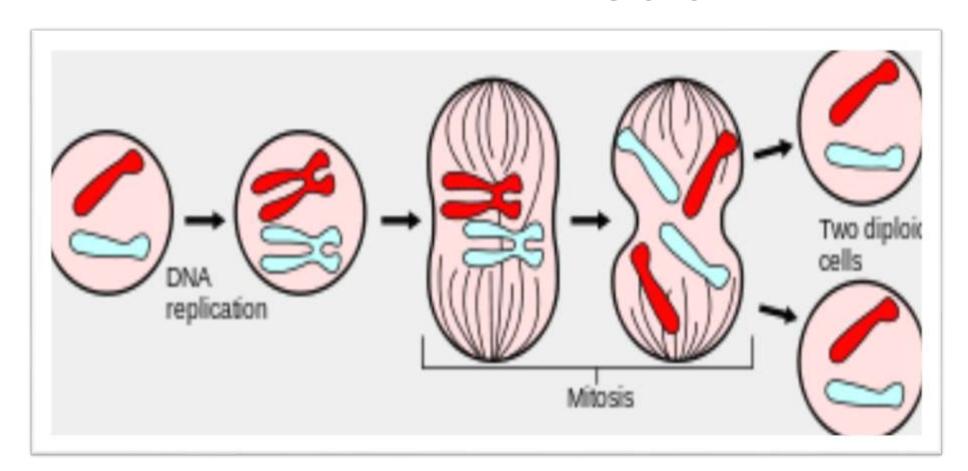
CLASS XII

LIFE SPAN

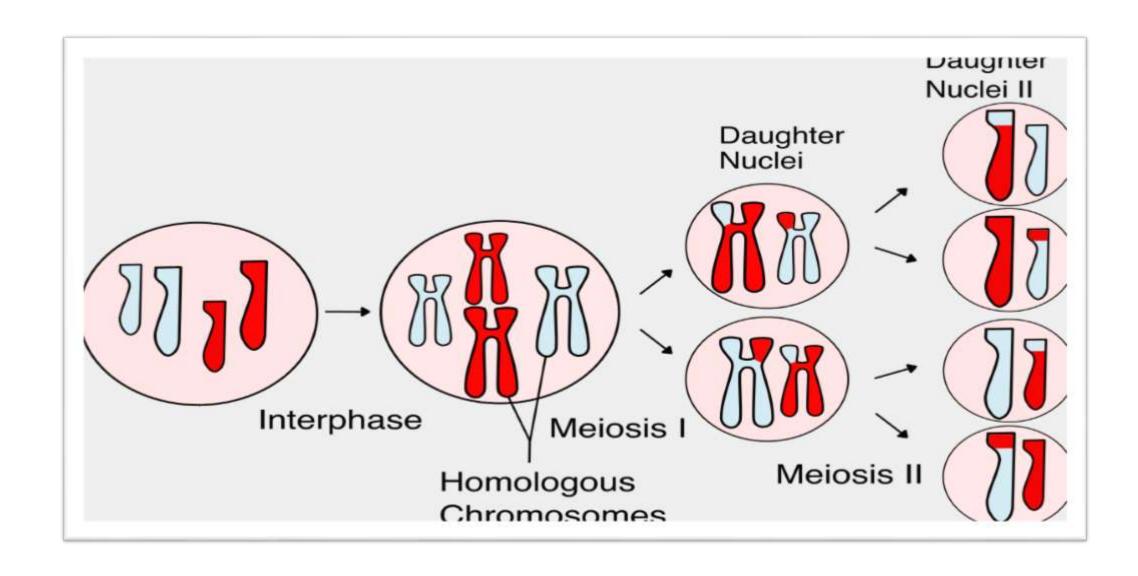
Life span is the average time period between the birth and death of an organism. Life span includes the growth of an organism from the time of birth till its death.

TYPES OF CELL DIVISION

TYPE 1: MITOSIS



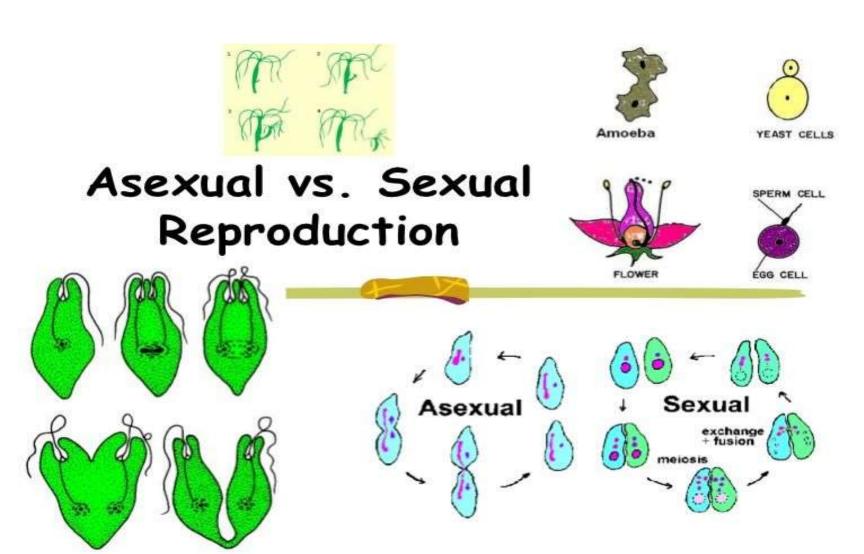
TYPE 2: MEIOSIS



TYPES OF REPRODUCTION

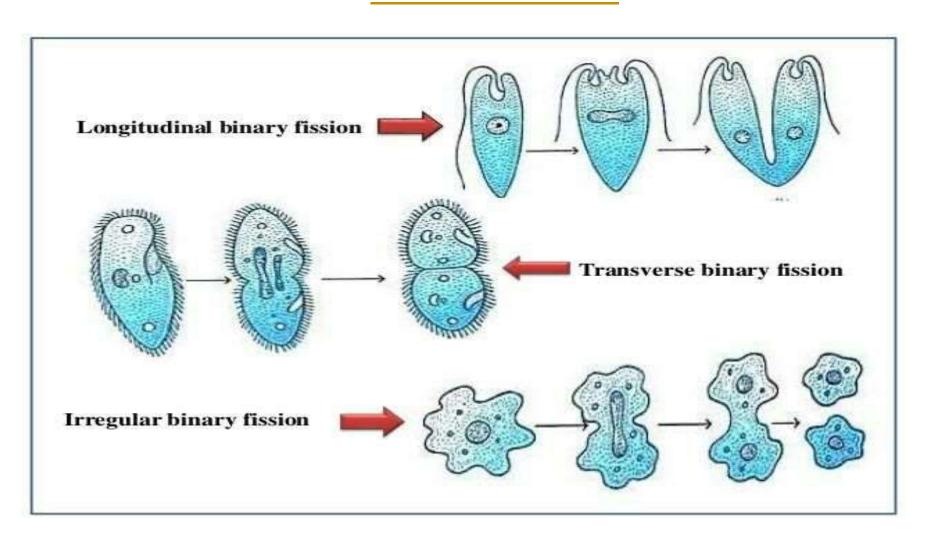
ASEXUAL

• SEXUAL

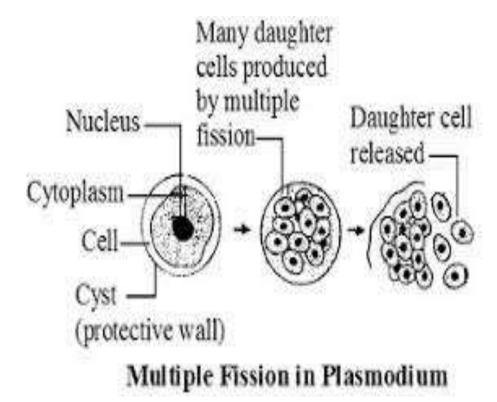


TYPES OF ASEXUAL REPRODUCTON

BINARY FISSION



MULTIPLE FISSION



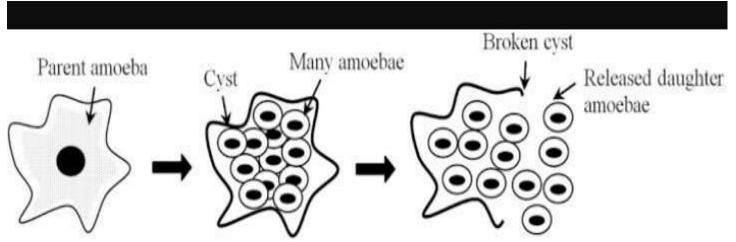


Fig. 2 Multiple fission in amoeba

BUDDING

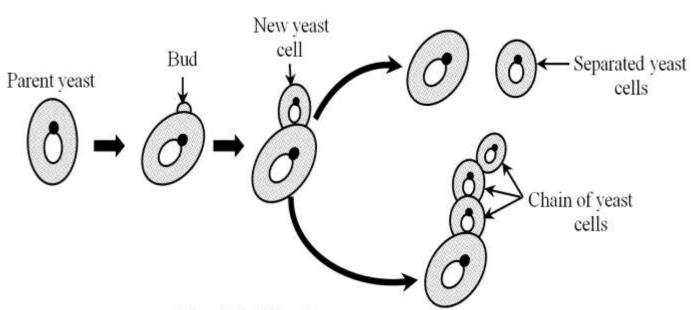
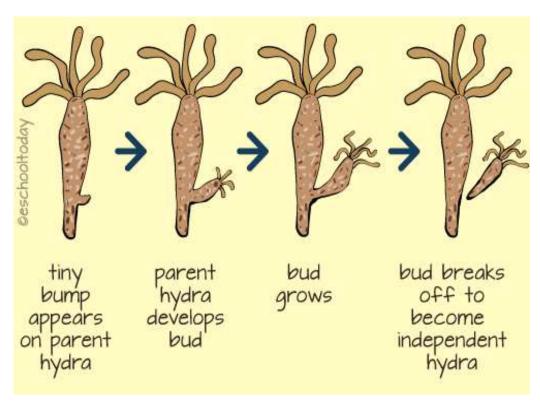
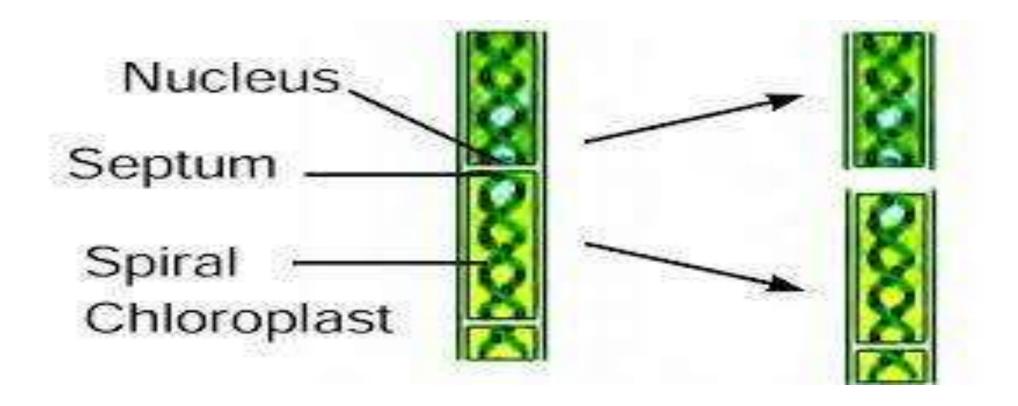


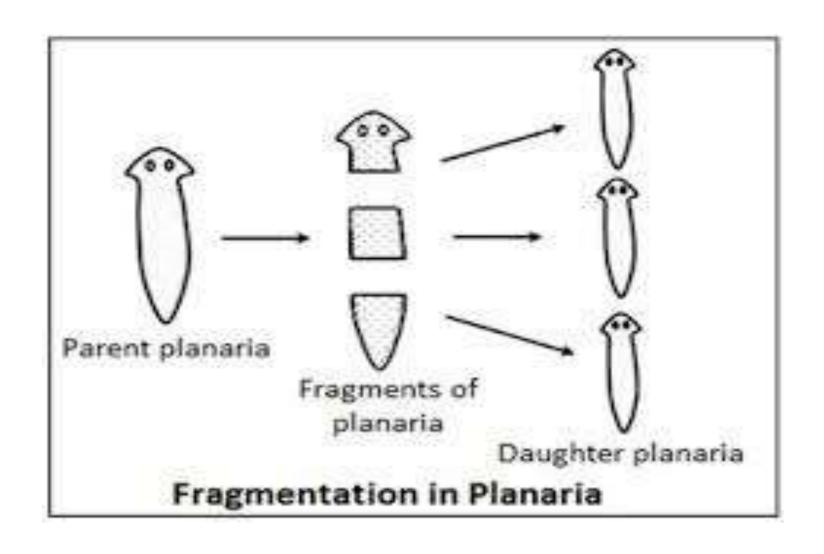
Fig. 4 Budding in yeast



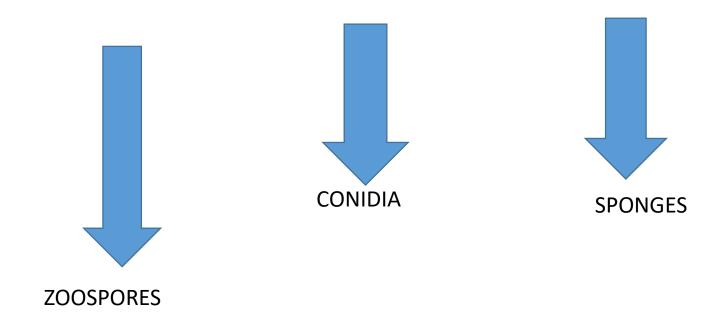
FRAGMENTATION



REGENERATION



SPORULATION



VEGETATIVE PROPAGATION



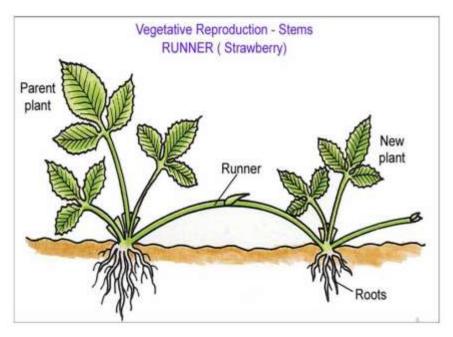
ARTIFICIAL

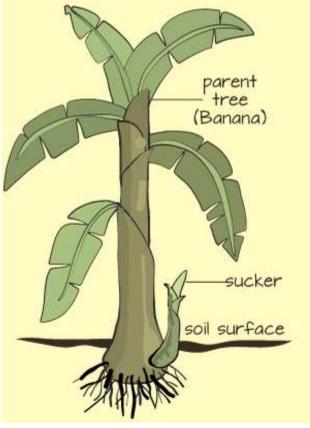
Natural Methods

Vegetative organs such as roots, stems, leaves, rhizomes, tubers, bulbs etc.,

Examples

- ✓ Bulbs Garlic, Squill
- ✓ Tubers Jalap, Potato
- ✓ Rhizomes Ginger, Turmeric
- ✓ Suckers Liquorice
- ✓ Runners Mint, chemomile





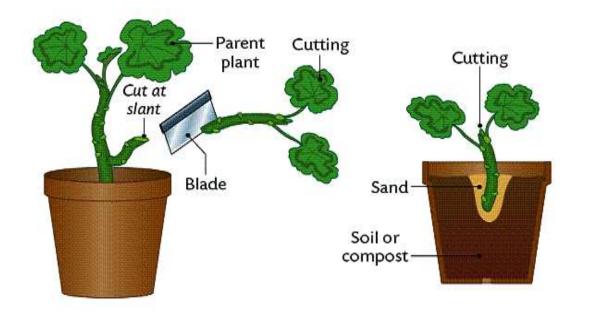


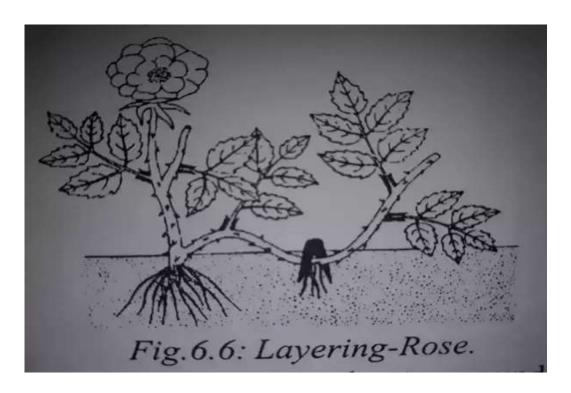
Artificial methods

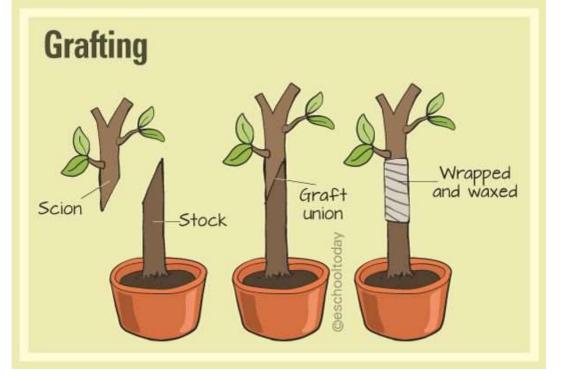
□ Specific method or process is used on any vegetative part of the plant for propagation.

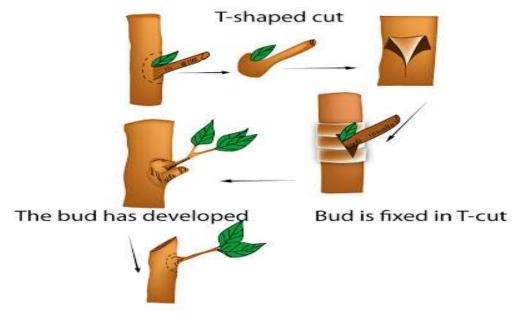
Types

- Cutting
- 2) Layering
- 3) Division
- Grafting









QUESTIONS

- Q. What are the two inherent characteristics of amoeba and yeast that favour asexual reproduction in them?
- Q. Explain giving two examples if there is a relationship between the size and the lifespan of an organism.
- Q. State the differences between:
- 1.Oestrous and menstrual cycle
- 2. Ovipary and vivipary
- Q. Why is it so that the gametes produced in the organisms in large numbers exhibit external fertilization?
- Q. Why can't multicellular organisms reproduce by cell division?
- Q. What is Gametogenesis? What is Embryogenesis?
- Q. Is vegetative propagation considered a type of asexual reproduction? Give reasons.