

# REPRODUCTION IN ORGANISMS

## IMPORTANT ONE LINERS

- ① → **Reproduction** is the biological process in which an individual gives rise to an offspring similar to itself.
- ② → **Asexual Reproduction** is when offspring produced by single parent
- ③ → In single celled organisms:- **Binary Fission** - Amoeba  
**Multiple Fission** - Plasmodium
- ④ → **Zoospores** → Chlamydomonas
- ⑤ → **Conidia** → Penicillium
- ⑥ → **Bud [exogenous]** → Hydra
- ⑦ → **Endogenous Bud/Gemmule** → sponges
- ⑧ → **Fragmentation** → Spirogyra
- ⑨ → **Rhizome** → Oxalis
- ⑩ → **Rhizome** → Ginger
- ⑪ → **Sucker** → Banana
- ⑫ → **Offset** → Water hyacinth
- ⑬ → **Bulb** → onion
- ⑭ → **Leaf Node** → Bryophyllum
- ⑮ → **Bulbil** → Agave
- ⑯ → **Reproduction** which involves formation of male and female gamete by two individuals of opposite sex → **Sexual Reproduction**
- ⑰ → **Juvenile Phase** = Period of growth of an organism before it can reproduce sexually.
- ⑱ → **Reproductive Phase** = period in which organism is capable of reproducing.
- ⑲ → **Oestrous cycle** = cyclic changes during reproduction in non-primata animals like cow, sheep, rats, deers.
- ⑳ → **Menstrual cycle** = cyclic changes during reproduction in primates like monkey, apes, humans.

- (21) → **Seasonal Breeders** = Reproductive cycle takes place in favourable season as in wild animals.
- (22) → **Continuous Breeders** = Reproductively active throughout their reproductive phase.
- (23) → **Senescent Phase** = End of reproductive phase
- (24) → **Pre-Fertilisation Events** = Gametogenesis  
Gamete Transfer  
Syngamy / Fertilisation
- (25) → **isogametes** → same kind of gametes
- (26) → **Heterogametes** → different kind of gametes
- (27) → In external fertilisation syngamy occurs outside the body of the organism like in **Bony Fishes and Amphibians**
- (28) → In internal fertilisation syngamy occurs inside the body of the organism. like in **Birds and mammals**.
- (29) → **zygote** = vital link that ensures continuity of species between organism of one generation and next
- (30) → **Development of zygote depends on**  
:- the type of life cycle of organism  
:- the environment is exposed to.
- (31) → **Oviparous animals** lay eggs.
- (32) → **Viviparous animals** give birth to young ones.