REPRODUCTION IN ORGANISMS.

LIFE SPAN poulod from Birth to Natural death no relation with size.

exception Single Celled Organisms.

Elephant-60-90 pres Cerocodile-60 gres Horse-50 yes Rose-5-7 yrs Fruitfly- 1 month Dog-10-13 yes Butterfly-1-2 weeks Killeplant-4 month Crow - 15 yes Tortoise - 100-150 yes

Barrana tuce-25 Barryan Tree-200-300 Cow-20 yrs Sequeia-3000-4000 Paviot - 140 yrs Sequeia - 3000-4000 yrs

REPRODUCTION Jo Biological process in which organisms gives ruse to young ones, enables continuity. Similar to itself of species... generation after generation Birth

Organisms divide on Death. growth Basis of - Habitat, internal physiology Several other factors.

Single parent no gamete formation.

Clones = morphologically and genetically

Bole toh Same-Same. (3) Seen in - Single Celled Organisms, Simple organisation plants and animals...

Dell Division → Monera and protista parent Cell → © division by mitosis. mitosis.

(2) Binary Fission -> Cell divides into into adult. (Amoeba, paramecium)

3) Budding -Division - Unequal and small buds produced, that remain attached initially to parent Cell, and gets separate, and matured into new organism. (Yeast).

4) Sportlation - Under unfavourable Condition, Amoeba withdraws its pseudopodia and secreate 3 layered hard covering | cyst around itself.

When favourable conditions netwens, encysted amoeba divides by multiple pseudopodiospores. fungio algae

· Cyst wall burst out, and spores are liberated in swevounding medium to grow up into many amoeba.

NEET + Zoospores - Zoosporangium.
PYQ Algae - Chlymadomonas.

Penicillium - Conidia
Hydra - Buds
Sponges - Germules Slayer
Amoeba - Pseudopodiospores

Chlymadomonas Penicillium Sponge

Chlymadomonas Penicillium Sponge

5) Vegetative propagation - NEET PYA

(a) Stem → Underground Stem.

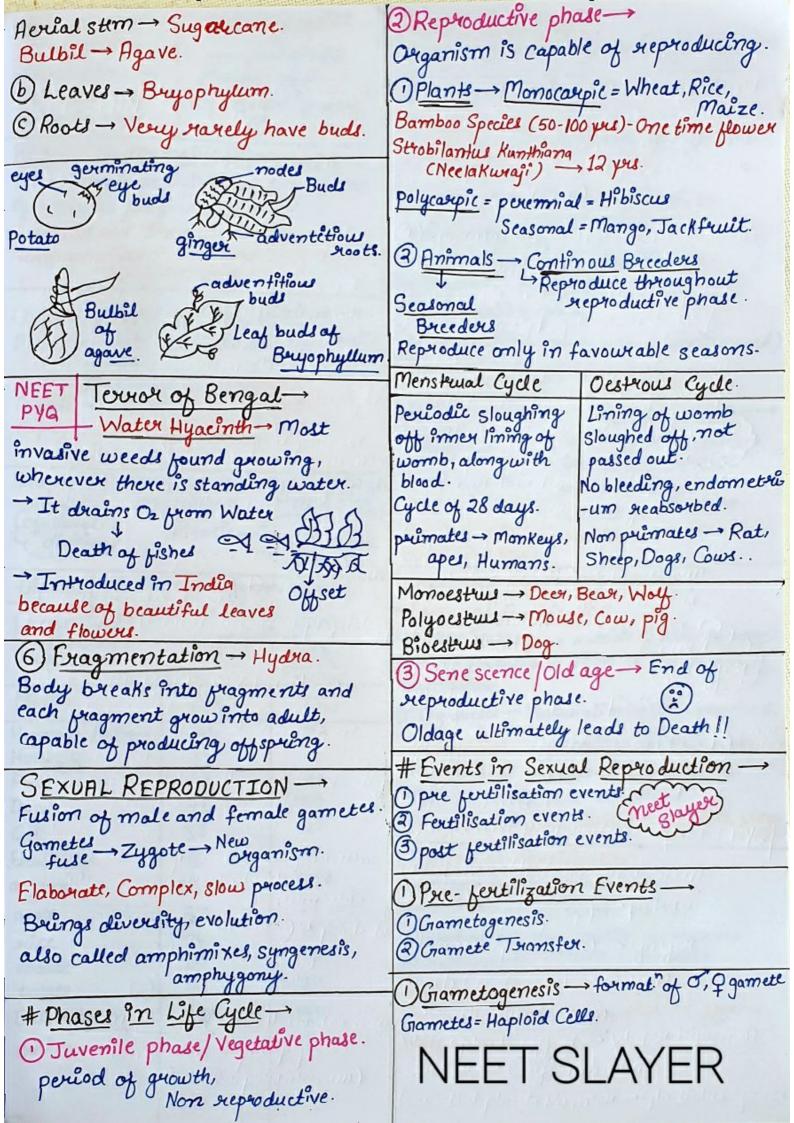
Tuber (swallomend,) -> potato.

Rhizome (pewienial) - Ginger.

Bulb (flat disk) - Onion

→ Subavual Stem.

Water plants Offset - Water hyacinth Sucker - Crysanthmum texesstial plants Rumer - Gladiolus, grass.



	· •	, b	
Homogametes/	Hetero	gametes (2) Gramete Transfer -
Isogametes.	mouph	ologically	Transfer of mature gametes for fertilisa?
aistina type.		type.	
eg-some algae	eg-ovu		17,00-motile = few fungiand algae
eg-some algae eg-ovum, sperm.			2 9 → stationary majority of organisms.
Bisexual / Homothallic / Monoecious ->			S→motile
Male, female studie on same plant.			
eg - several jungi and plants.) Cucurbits and Cononuts.			3 f,0 medium required, to stationary move gametes
Hermaphodites - Earthworm, sponge,			Water- alone have previde
Hermaphodites - Earthworm, sponge, Topeworm and Leech.			Water-algae, bryo., pterido. pollengrain-seed plants.
Unisexual / Heterothallic / Diocious ->			Self pollination-peas
Male semale structure on dissevent			Cross pollination - many plants (carvier need)
Male, jemale structure on different plants.			
male -> staminate female -> pistillate papaya and date palm. Cockhooch			Pertilization: - Most Vital
papaya and date colm			Fusion of gametes -> Parthenogenesis ->
Cockroach.			Syngamy female gamete undergo
Haploid + monera, jungi, algae, Hapl-			Diploid zygote. form new organisms
bryophytes. @ oid			without fertilization.
Haploid monera, jungi, algae, Hapl- buyo phytes. Me Plant cartional mitosis mitosis gametes			Only in Rotifers, Honeybees, some Lizards, Birds (Turkey).
gametes			Birds (Turkey).
Diploid + pteridophytes, gymnospems,			Where does Syngamy occurs?
Greductional muosis - 2n muosis - 2n			* External Fertilization.
(division) meiosis ->			Feutilizat." takes place outside q body (water)
- CUC-	Aller Married	(m) (m)	Gametes produced in 11 na to 11se chance of fertilization.
Name	(2n)	(n)	0, Qgametes → Matwation → Synchronised.
Human Beings	46	23	
Houseply	12	6	Disadvantage - Offsprings are extreamly
Rat	42	21	Vulnerable to predators threatning their survival upto adulthood.
Dog	78	39 19	eg - aquatic animals, algae, bony fishes, prog.
Cat	38	4	
fourt-fly	8	2022	* Internal Fertilization.
a juin	1260	630	fertilizatio inside female body.
apple	34	12	Agamete no. VI, o gamete no. 11.
suce	24	10	In seed plants, non motile gametes -> female gamete through pollen tube.
maize	20	24	funci animals, reptille, or cos,
potato	280	190	mammals, plants, beyo, pterido, gymno.,
Butterfly	380	8	maio sperms
onion	16	O	angio sperms.

3) Post Fortilization Events-

1) Zygote Vital link b/w 2 succesive generations, which ensures continuity from generation to generation.

· Every sexually reproducing organism begins life as a single celled zygote.

on type of life cycle of organism, and environment he's exposed to.

Fungi and algae → zygote thick walls, resistant of dessicnation and damage. In organisms with haplontic life cycle, zygote divides by meiosis. Haploid spores → Haploid individuals. (2) Embryogenesis - development of embryo from zygote.

Cell division , 11se no. of cells in (mitosis) developing embryo.

Cell differentiation - help group of cells to undergo certain modifications to form Specialised tissues and organs to form organism.

In flowering plants, zygote is formed inside Ovule.

Zygote - Embryo O, D, Substribe

Ovary - Fruit - Seed disperse and germinate to form new plants.

Endospermprovide nutrition at time of embryo development.

Oviparous

Egg laying organisms

Birds, lizards...

Embryo development take place under mothers womb with help of placenta.

Ovovivipanous

Develop egg inside body,
instead of laying.

Shark

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NEET SLAYER

