## Repuduction in Plants

- Asexual reprod -> Definition
- Structure and function of parts of flower:
  - Petal
  - s-tamen: anther + filament - carpel: ovany, stigma, style
  - Pedicel
  - sepal
    - receptacle
- Pollination -> petinition

self -> !! not asexual reproduction!! 7 pollination occurs before

same plant Cross

fertilisation + Adv./Disadv.+ : don't confuse different features plant

self-polineuriou wasexual reprod. + Adv./Oisadv. favouring self-polln:

- authors & ctiama wature at different **Features** 

position of stigma above/ away from anthers

· flowers are not fully open

hame of pollar grains 78 eg perais one eg sta movis (Hipicus)

ctigma

- scont

TB eg.

· PWUSS OF FEMILISATION > Definition

- pollen grain germinates in response to sugary fluid produced by mature stigma
- ensumes produced by pollen tube digest tissues of stigma, style, wall of ovary for pollen tube to grow
  - Tip of pollen tube absorbs sap trom surmunding cells of micropy le and burst to release male gamete into ovule
    - · male gamete tuses with fernale gameter egg to torm zygote -> fertilisation

## Reproduction in Humans

· Structure and tunction of pains of sperm **₩** Owner membrane Inend (acrossome), middle piece, 1 tail has many mitochondia of male reprod. system structure and function of parts -wwper's gland - epididy mis - suntum - seminal vesicle - penis - testis - prostate gland - sporm duct -uretura

Structure and function of parts of female reprod. system - Ovary - uterus famile period

16 - oviduct - utening lining

- (P/ViX + + +

- vagina monstrual cycle

->14 ---< prepair of uterine thickness. Ovulation of utenine menstruation lining maintained Whing Sdefinition by progesterone definition + conc. of bestween in case of + pro gesterone \* fertilisation

· functions of Destrogen, progesterare	
repair & growth leads waintains of uterine to thickness of chevine living inhibits union	
· If fertilisation occurs, - early development of embryo	
role of  - corpor wheum: will placenta -> functions  recreting oestrogen forms placenta  - embryonic villi  - embryonic villi  - unterine lining  to exchange of materials)  oxygen, vs. cown	11
of materials)  Oxygen, vs. Cown, divride, unea  gruise divride, unea  gruise divride, unea  divride, unea  gruise divride, unea  divride, unea  gruise div	ήθ/N <sup>1</sup>

AIDS - stands for Acquired Immune Deficiency Syndrome caused by human immunodeficiency virus - Symptoms -modes of transmission - prevention moleular Genetics basil unit: MUCKUTIOL Strutture · Structure & function of DNA \* rule of complementary base pairing gene, chomo some · Pluship Win DNA, > definition definition - Chromownes are tightly will chromatin threads which consist of ONA mapped award histone proteins. segments of MA are called genes which Dode for the furtheris of paypeptides.

oefinitions towhere they take	place in a cell
menta vs DNA  single- strand temporany "uracil' instead of thymine"  Genetic engineering	• codon: 3 bases on an end coding for one amino acid
Connection enraincements	
GENOTIO OF JAMAN HUMAN II	nsulin gene into bacteria
restriction enzymes words  complementary sticky ends  DNA ligane of clefinition rewnbinant planmid (E. C heat snock treatment transgenic bacteria	h pply to other scenarios
I desnition	
Dalve VS. Diserdy	of genetic engineering

## Heredity

- Drawing generic diagrams (see resource)
- · Keywords: · Hetonozygous
  - · Homozygous · Duminant
  - becerving
  - genotifie
  - enerotype
- Expected ratios: 3:
- · mutation Definition
  - Mutagens 7
- alpha radiation chemical:
  gamma formaldehyal
  gutraviolet formaldehyal
  must ard gas
  - Phlbinism change in gene KE

- (Hetero X Hetero)

  (Hetero X Homo

  recessive)

  Homo

  Homo
- All Dominant (Homo x Homo)

Definitions.

- Down's syndrome Schange in
  - chromosome number
    - 47, instead of 46
  - additional curomosome
- andemia

· Human ABU Glovd groups
orecessive  Abminant w-dominance (definition)  XX  Sex determination:  (em ale male)
Variation: Continuous US. Discontinuous  Veg:  Veg:  Neight,  Skin word,  Feor langth  Distinct, few categories/  phonotypes  A voitural (dection) of adapted to
Natural Selection of adapted to survive definition (eproduce pour down favourable genes to offpring / genes to offpring / next gen.  Artificial selection next gen.