Stages of embryology:

- 1. Gamete fertilisation.
- 2. Fertilisation
- 3. Cleavage
- 4. Gastrulation
- Organogenesis.
- 6. Growth

Gamete fertilisation:

- Cells in the reproductive organs (testes and ovaries in humans) divide to form gametes. Gametes are sex cells.
- Male gametes are sperm (produced in the testes)
- Female gametes are eggs (produced in the ovaries)
- Gametes contain one set of genetic information, while body cells contain two sets of genetic information. The type of cell division that produces tar eles is om Notesale.cl called meiosis.

Fertilisation:

Fertilisation is the icinity or lusion of a male Amete and a female gamete. When fertilisation appens, a single ledy derivith new pairs of chromosomes is formed. The new cell then divides over and over again by mitosis. This creates the many cells that eventually form a new individual.

Cleavage:

Holoblastic cleavage: occurs in lightly yolked isolecithal eggs, and moderately yolked mesolecithal eggs. The entire yolk cleaves. In the absence of a large concentration of yolk, four major cleavage types can be observed: radial, spiral, bilateral and rotational holoblastic cleavage. These holoblastic cleavage furrows extend completely through the egg. Occurs in echinoderm, tunicates, cephalochordates, marsupials and placental mammals.

