UNIT:4 (ANIMAL HUSBANDRY & POULTRY)

Induction Of Early Puberty (Estrous)

(1.2) Induction of early puberty and synchronization of estons in caltle. Reproduction is a cyclic process and it include breeding as an imp phenomenon. Large animals breed at precise / particular time of year I some time. this span of time is constant. Most of the mammals are seasonal breeders and breed only in some specific period of the year. In such animals, the females becomes sexually responeine only in a particular season eg Breeding season is autum for sheep, and spring and autum for bitches. This brief period of intense sexual responsiveness of female is called Destous Estrue Ovasian Cycle Heal period dueig which a resulty responsive female like copulation e undergoes ovulation so that feetilization and pregenancy are possible. But whole of this process require sequere of processes so that to breeding period is controlled by hormones which lead to onset of puberly in caltle For this a cycle of events is as 2) established within gonads which comprises the growth of the gonads. The release of six cells followed by changes in case of ovary, its left over ovarian / egg membanes and all these changes are under control of hormones.

Growth of Eggs - There goradal Charges

by FSH. are not only concerned

with fortile eggs but some time eggs
in overy also become show atresta that
is perishing of eggs & this is result of
non-avalibility of goradotropic hormones to
the eggs.

Jon the overles, hormones are
also needed for product of conception in

Case of viviparous vertebrates.

commonly used to describe 2 barks of estous cycle. It is easy to describe this cycle in terms of ovulatory investals particularly in manuals. The intervals comprise of luberal phase of one cycle and follralar phase of next cycle.

Events in eating cycle are regarded as changes in ovary as also

1) Procestrous phase: It is the building up phase and is characterised by: a) Ovarian follicle increase in size due to increase in follicular fluid. b) Ovacian follicle secretar estrogeric hormones which induce the following charge: 1) Increased valcularity and growth of genetities 2) Oterus and Vagina become more gladulat and Secretory Bul cofulation does not occur during this 2) Destrous phase (Heal period): It is period of copulation between sexes & have folling charactersfies: a) Vaginal efithelium further thickness and Keralinised. b). Crroafian follicules become mature c) Ovulation occurs generally spontaneously and ovur passes into follopian tube. But in ande like cals, rabbit, nuck etc ovulation is Rhumlated by coital activity l'e though newous Stimulation. This period oestrous phase is of different ducation in diff avinale eg 18 hrs in aws 9 to 15 hrs in cak, nine days in dogs.

3) Metoestrous phase: It is post-ovulatory phase & is characterised by: a) Emply follicle transformed into a yellow coloned & highly vacular endocrine glad i.e. corpus luteum b) Decrease in extragen secretion but increase in progesteron secretion. c) The wherine endomielorum becomes softer, tucker, more vasular and more gladular. So uteros prepares itseff for implantation. If the oven remains unfeelilized, the Coopus luteur degenerales, progestione seretion decreases and wherine x vaginal lining gradually revert to their original condition 4) Diestrous and Anoestrous phase: It is a Short resting interval of quiscesice between two oestrous cycle in polyocetrous amale c.g (rate - diestrous pd is of 4-5 drys) while Anoeshow is the resting nonsexuel pd & can extend upto next breedig leason in monochous naumals. So it is a quisere period during which the fenale does not cofoulate with mole.

So we can kay that oestrus cyle
ocers in all non-primate who do not
undergo merculation & copulation ocers
and when female is in oestrous of
heat period