Role of hormones in the regulation of ovulation:—

The central stimulus to ovulation is affected to only a minor degree by environmental stimuli. It primarily regulated by by an internal hormonal cycle. It is mediated by hypothalmic clock of typical frequency such as 28 days in woman, 28 days in cow & so on.

(1) A complicated reciprocal regulationship between ~~three~~ two ovarian hormones and three pituitary hormones exists in ovulation. They are:-

1. Oestrogen 2. Progesteron
3. FSH (Follicular stimulating hormone)
4. LH (Luteinizing hormone)
5. Luteotrophic hormone (LTH)

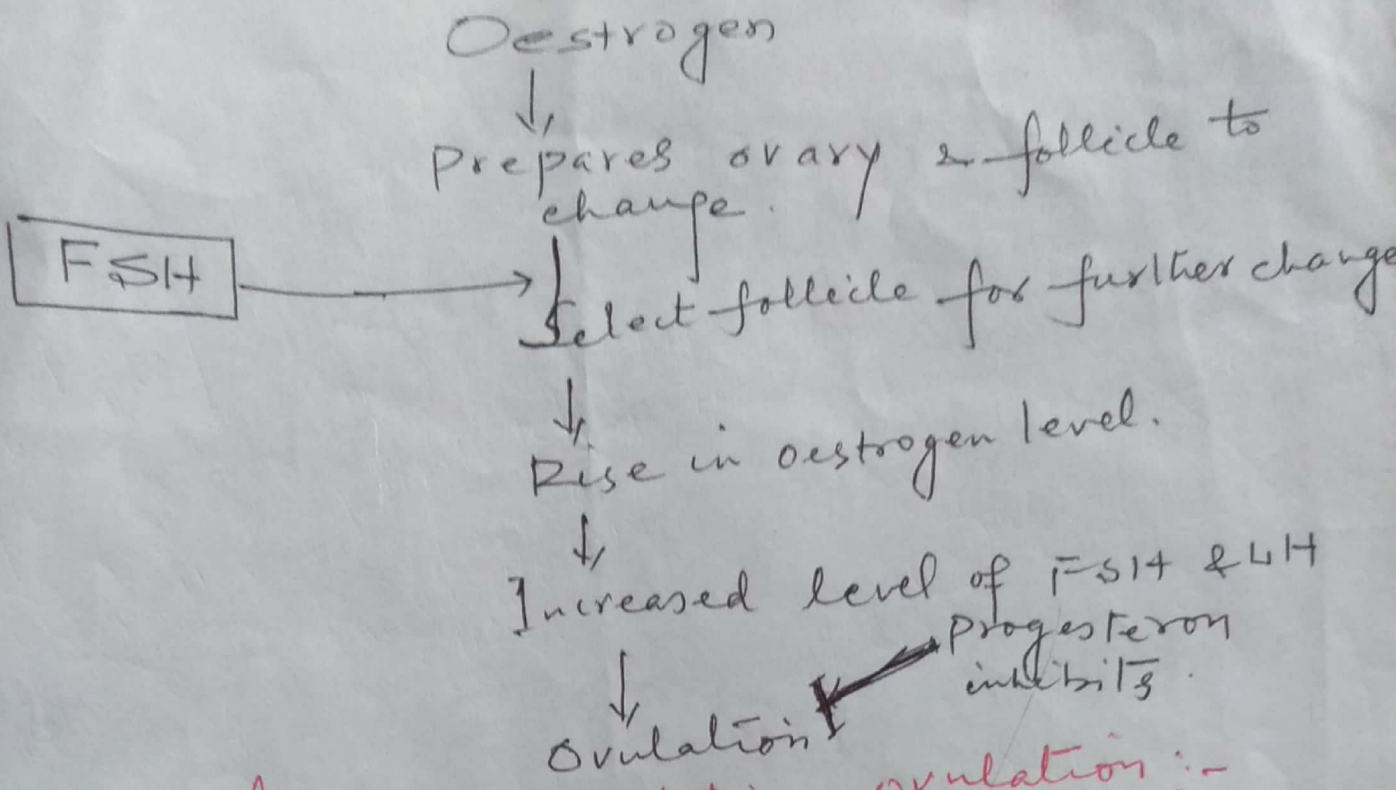
(2) Oestrogen prepares the ovary for stimulation by gonadotrophins.

(3) FSH helps in ~~increasing~~ selecting specific follicle for ovulation.

(4) Finally LH sends strong stimulus for ovulation.

(5) Progesterone inhibits the ovulation.

Thus ovulation is completed and ova are released.



Other factors regulating ovulation :-

1. Age :- Ovulation stoped after Menopause.
2. Diet :- Balanced diet stimulates.
3. Light - In goat light influend ovulation.
4. Season - It is seasonal in rat.
5. Mating - induces ovulation.
6. Emotion :- may upset ovulation.