

Q1- complete the following sentence:

- 1- The ..... is the area of attachment of the mesovarium and the entrance of ovarian vessels.
- 2- In mare the the increased exposure to melatonin during long nights ..... GnRH released from hypothalamus.
- 3- The process by which the corpus luteum formation called .....
- 4- the *broad ligament* is considered the principal supporting structure which consist from three portion which are : ..... , ..... and .....

Q2/Answer with Tor F and correct the false sentences:

- 1- The corpus luteum is the dominant structure on the ovary during proestrus.
- 2- The *vagina* is that portion of the female duct system that is common to both the reproductive and urinary systems.
- 3- During estrus, the high levels of progesterone are responsible for behavioral signs of estrus.
- 4- metestrus is the most lengthy period of the estrous cycle which is the period of corpus luteum function.

Q3/ define the following : (chose 5)

Seasonal polyestrus, feed back mechanism, monotocous, *Grafian follicle*, short-day breeders, *caruncles*

Q4/ what is the puberty, mention the factors which affecting the age of puberty ?

Q5/mention the the influence of each following hormones on the reproduction:

GnRH, FSH, LH, Estrogen, Progesterone, Prostoglandin, Inhibin.

Q6/ draw a table and illustrate the duration of estrus, estrus cycle and the time of ovulation for each animals (mare, cow and ewe ).

Q7/ draw one of the following with pointed on each structure :

- 1- cross section of ovary in cattle.
- 2- female reproductive system in cattle.