

Q1/ Write about the main role of estrogen and progesterone in reproduction of animal. 15 M.

Q2/ Define following: (chose 4) 20 M.

Short day breeder, Luteonization, luteolysis, Countercurrent mechanism, Puberty

Q3/ **Correct following sentences: (chose 5) 15 M.**

- 1- The fundamental requirement for pubertal onset is the secretion of oxytocin at the appropriate frequency and quantities to stimulate FSH and LH release by the pituitary.
- 2- The female animals of some species (cow and mare) usually require copulation for stimulate ovulation and these are called **induced ovulators**.
- 3- Pro-estrus is the lengthiest period of the estrous cycle which is the period of corpus luteum function.
- 4- In long-day breeders (horse) the increased exposure to melatonin during long nights (short days) activate the GnRH release by the hypothalamus.
- 5- Corpus luteum is blister-like structure containing the egg.
- 6- The follicles are the main regulatory organ in seasonality.

Q4/ Write short note about the important events which occur at Di-estrus stage? 15 M.

Q5/ Answer the following: 15 M.

A- In mare ovulation only occurs at the specific area which called ovulation fossa. Why?

B- Define estrus and enumerate the periods which combined with normal anestrus.

Q6/ complete the following table: (chose 4 only) 20 M.

	Site of secretion	Target organ	Chemical structure	Main function
PGF2				
GnRH				
LH				
Inhibin				
Estrogen				

Female fertility - first semester - First exam

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Q1/ Write about the main role of FSH and LH in reproduction of animal. 15 M.

Q2/ Define following: (chose 4) 20 M.

Long day breeder: Monoestrus: Countercurrent mechanism: Luteolysis: Maturity:

Q3/ Fill the following blanks: (chose 5) 15 M.

- 1- -----a blister-like structure containing the egg
- 2- ----- is the main structure which can be seen on the ovary during luteal phase.
- 3- If the ovum that is released from the follicle during ovulation, is not fertilized the ----- released from ----- will regress corpus luteum and the estrus recurrence again.
- 4- In all female animals the ovulation occurs during the period of estrus except----- in where ovulation occurs after the end of estrus.
- 5- ----- plays a very important role in regulation of onset of puberty.
- 6- The ----- is the main regulatory organ in seasonality.

Q4/ Write short note about the important events which occur at met-estrus stage in cattle? 15M.

Q5/ Answer the following: 15 M.

A- Define estrus and enumerate the periods which combined with normal anestrus.

B- In cows the ovulation occurs at any site on the ovarian surface. Why?

Q6/ complete the following table: (chose 4 only) 20 M.

	Site of secretion	Target organ	Chemical structure	Main function
GnRH				
PGF2				
FSH				
Oxytocin				

Progesterone				
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Good luck

