

Q1\ Answer two only: (25 M.)

1. what are the functions of these structures : prostate gland, sertoli cell ,testes ?
2. Drawing a diagram of hormonal regulation of reproduction in male.
3. Explain with draw normal morphology of sperm.

Q2\ Answer two only: (25 M.)

1. Name the hormones secreted by the ovary, and name target organs and actions of those hormones.
2. Explain why the endocrine system is so closely related to the nervous system, and what is the different in this relate.
3. list the hormones secreted from Pancreas and mention there functions.

Q3\ Answer two only: (25 M.)

1- Fill in the blanks :

- a- the language area in the brain is called and locate in lobe
- b- the two hemispheres of cerebrum are connected together at the
- c- vision area located in Part of brain .
- d- cells represent immune cells in brain .
- e- Lengths of Estrus Cycles in sheep about Days
- f- Progesterone hormone secreted from
- g- Bartholins glands located in Part in female reproductive system .
- h- Fertilization occurs in the
- i- Proteins are excellent buffers in

2- Write either (**true**) or (**false**) for each statement below :

- a- The thalamus is called the gateway to the cerebral cortex.
- b- Cerebrospinal Fluid forms in the temporal lobe .
- c- (Wernicke's area) locate in Frontal Lobe of the brain .
- d- Oligodendrocytes help in repairing brain injuries .
- e- in case of Acidosis kidney will Retains bicarbonate ions and eliminates hydrogen ions.
- f- Normal blood pH is (Venous Blood) 7.35 - (Arterial Blood) 7.5 .
- g- Acid-base buffer system cause acidosis in body .
- h- Releasing of egg occur in the follicular phase .
- i- corpus luteum produce progesterone hormone .
- j- Mons Pubis belongs to External Female Structures.

3- Define Astrocytes and what are the functions of it ?

Q4\ Answer two only. (25 M.)

1. Write about physiology of Acid-Base buffer system in body .
2. Enumerate the phases of estrus cycle . and write about one of them .
3. Enumerate the external Female Structures . and what are the functions of it ?

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