

Q1\ choose two only : (25 M.)

1. Enumerate the functions of kidney.
2. Define : endocrine, paracrine, autocrine .
3. Define hormones, and enumerate with explain the types of hormones according chemical structure.

Q2 \ answer two only: (25 M.)

1. Write a short notes about glomerular filtration rate (GFR).
2. Enumerate only the General Nephron Structure and functions.
3. Describe the location of secretion, target tissue, and functions of the following hormones: (5 ONLY)
 - ADH.
 - Glucagon.
 - LH.
 - PROLACTIN.
 - Epinephrine
 - Insulin.

Q3\ answer two only: (25 M.)

1. Write briefly about Hormones that controls reproduction in male.
2. Define the following : sertoli cell , Leydig cell ,Meninges ,Cerebrum , Glial cells.
3. What are the functions of these structures : (prostate gland, sertoli cell ,testes)?

Q4\ choose two only : (25 M.)

1. fill in the blankes :

- the language area in the brain called ----- which located in ----- lobe, while the area for matching written words with the sound of spoken speech called-----
- pH range compatible with life is -----
- ----- Cells contribute to the formation of cerebrospinal fluid (CSF).
- Lengths of Estrus Cycles in sheep about ----- Days
- Progesterone hormone secreted from -----

- Bartholins glands located in ----- Part in female reproductive system .
 - Fertilization occurs in the -----
 - Proteins are excellent buffers in -----
2. explain briefly the dominant hormones in each phase of estrus cycle .
3. Write about physiology of Acid-Base buffer system .

Head of department
Dr. Yaser A.M. Sulaiman

Lecturer
DR. Wasan S.Ooubied

Lecturer
Dikheel Hussain Hedri

Lecturer
Khalid Ahmed Hadi