



Please answer the following questions:

١- Write short notes on:

(١٠ Marks)

- a) Viral Envelope
- b) Viral RNA genome
- c) Elution
- d) Live Viral vaccines
- e) Viral Tropism

٢- Write short notes on :

(١٠ Marks)

- a. Genetic changes of AIV
- b. F-protein of NDV
- c. Antigenic properties of IBV
- d. General characters of Picornaviridae
- e. Morphology and structure of Fowlpox virus

٤- Compare between the following:

(٧,٠ Marks)

- a)Fixed and street strains of Rabies virus
- b)Interferon and antibodies
- c)Virion ,Viroid and Prion

٤-Mention the steps of viral replication cycle and discuss fully the mechanism of virus penetration to the host cell .

(٧,٠ Marks)

٠-A sheep attended to your clinic suffering from fever and odemates lesions in the buccal cavity with epithelial desquamation and swelling of the lips, tongue and gums .What is the suspected viral disease and what are the steps of its laboratory diagnosis ?

(٠ Marks)

*Best Wishes
Pr. Dr. Gabr ElBagoury*