

Please answer the following questions:

١- Write short notes on: (١٤ Marks)

- a- Criteria of classification of viruses according to physical and chemical properties.
- b- Genetic changes of Influenza viruses.
- c- Differences between Orthomyxoviridae and Paramyxoviridae.
- d- General properties of Picornaviridae.
- e- Laboratory diagnosis of Rabies.

٢- Write short notes on: (٦ Marks)

- a- General properties of Bluetongue disease virus.
- b- Strain differences in Newcastle Disease Virus.
- c- Morphology and structure of Pox viruses.

٣- Respiratory tract infections are of great importance in poultry industry due to the high morbidity and mortality rates. Mention the viruses associated with respiratory diseases in poultry and discuss the general characters and laboratory diagnosis of one of them. (5 Marks)

