



- Q2 Answer the following questions (any 10) :** [20]
- 1 What are the principles of ICNV?
  - 2 Write a note on: counts of physical particles.
  - 3 What do you mean by metal shadow effect?
  - 4 Define eclipse and latent period.
  - 5 Draw regulatory region of lambda phage.
  - 6 Give significance of co-operative binding.
  - 7 Write different characteristics of vaccinia virus.
  - 8 List out general properties of hepatitis viruses.
  - 9 Mention the general characteristics of Reovirus.
  - 10 Define viroids.
  - 11 What do you mean by abressive? Give its function & example.
  - 12 By which different ways we can control the viral disease to plants from infection?
- Q3 (a)** List out different methods for assaying viruses. Write about heamagglutination with its mechanism. [06]
- (b)** Write a note on "envelope". [04]
- OR**
- Q3 (a)** Discuss the modern classification system of viruses with help of flow chart. [06]
- (b)** Explain DNA as a nucleic acid in viruses. [04]
- Q4** Discuss lytic cycle with respect to its molecular mechanism. [10]
- OR**
- Q4** What is repressor? Explain prophase with diagrammatic representation and give significance of lysogeny. [10]
- Q5 (a)** Sketch the structure of HIV and explain its multiplication in host cells. [05]
- (b)** Discuss in detail adenovirus. [05]
- OR**
- Q5 (a)** Explain the multiplication of hepatitis B virus in hepatocytes. [06]
- (b)** Give an account on Prions. [04]
- Q6 (a)** Describe various means of viral transmission in plants. [05]
- (b)** Give the symptoms of virus infection in plants. [05]
- OR**
- Q6 (a)** Explain multiplication of TMV and movement in plants with its structure. [05]
- (b)** Discuss physical and chemical properties of plant viruses. [05]

ALL THE BEST  
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