Biology - FSC Part 1 Biology English Medium Chapter 5 Preparation

Q1. What is lysogenic of cycle of phage?.

Ans 1: The type cycle in which phage DNA peacefully replicate in the host cell and transferred to next generation along with the host DNA is called lysogenic cycle.

Q2. What are prions?

Ans 1: Prion:The most recently discovered (1983)and least understood micro-organism and lease which may be infectious proteins.Their nature is very controversial.They are composed of protein only that contain the information that codes for their replication.Prions are responsible for mad cow infection and mysterious brain infection in man.

Q3. What is induction?Give factors that cause induction.

Ans 1: Some time in lysogenic cycle the viral DNA gets separated from Bacterial DNA and starts lytic cycle again this is called induction.Main factors which cause induction are change in pH,temperature.

Q4. Define binomial nomenclature with two example.

Ans 1: Linnaeus system of giving scientific names to the organisms,which consists of two words is called binomial nomenclature.e.g Cassia fistula.

Q5. Write a note on polio.

Ans 1: Poliomyelitis is caused by polio virus.It is found all over the world.It occurs mostly in childhood.The age in which primary infection occurs varies with social and economic factors.The polio viruses are the smallest known viruses and contain RNA in a spherical capsid.

Q6. What is Hepatitis?How How it caused?

Ans 1: Inflammation of liver is called hepatitis.
Cause of hepatitis are

1. Blood transfusion from infected to healthy person
2. By sexual contact with infected person
3. By using surgical instruments and syringe of infected person.

Q7. What are nacked viruses?

Ans 1: Non enveloped viruses are called naked viruses.

Q8. What is reverse transcriptase?Give its function.

Ans 1: It is an enzyme present in retroviruses or RNA containing viruses.
Its function is to convert single stranded RNA in to double stranded DNA by reverse transcription.

Q9. Differentiate between virulent phage and temperate phage.

Ans 1: Virulent phage: The virulent phage or lytic phage is called lytic phage.

Ans 2: Temperate phage:Non virulent or lysogenic phage is called temperate phage.

Q10. Write the name of four common human viral disease.

Ans 1: Viral disease are polio,small pox,measles,mumps and influenza.