

Biology - FSC Part 1 Biology English Medium Chapter 5 Preparation

Q1. What are symptoms of AIDS?

Ans 1:

1. A rare vascular cancer
2. Sudden weight loss
3. Swollen lymph nodes
4. General loss immune functions
5. Severe Pneumonia

Q2. Define virology.

Ans 1: Study of viruses is called virology. It relates with structure, replication and transmission of virus into host body.

Q3. What are prions?

Ans 1: Prion: The most recently discovered (1983) and least understood micro-organism and least 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.

Q4. Differentiate between virion and prions.

Ans 1: Virion: Complete infectious and mature viral particle is called virion. Virion are composed of nucleic acid, either RNA or DNA which is known as the genome and is surrounded by a protein coat the capsid. Capsid gives the shape to the virion.

Ans 2: Prion: The most recently discovered (1983) and least understood micro-organism and least 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.

Q5. 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.

Q6. Differentiate between capsid and capsomeres.

Ans 1: Capsid: The nucleic acid core is surrounded by a protein coat called capsid. Capsid gives definite shape to virion.

Ans 2: Capsomeres: Capsid is composed of protein subunits called capsomeres.

Q7. What are pocks?

Ans 1: In small pox raised fluid filled vesicles are called onco viruses. For example RNA viruses, AIDS and onco viruses.

Q8. What is Hepatitis? How is 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.
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Q9. Of which material is capsid made.

Ans 1: Capsid is made up of repeating protein units called capsomere.

Q10. What are intracellular obligate parasites?

Ans 1: Obligate intracellular parasites are those which are capable of growing and reproducing inside the cells of host. Some parasites can cause disease.

Example: Some virus e.g. influenza virus.
