

Name: Tariq Khan

ID:14547

Semester:4th

Paper Name: Clinical Mycology & Parasitology

Teacher Name: Huma Imtiaz.

Q:1 A 45 years old Sikandar is presented to the local hospital having an allergic attack just like asthma. Upon investigation of chest x-ray fungal balls were seen which change their position when a patient was moved from erect to supine position what is the possible diagnosis for this condition? What is a causative agent which causes the condition??

Ans: Clinical manifestations of fungal asthma (in increasing order of severity) although several fungi can cause fungal allergies are caused only by a small number the most common being *Aspergillus fumigatus*.

The common fungus which can cause lung infection *Aspergillus fumigatus*.

Q:2 Discuss the following?

Answer:1 Definitive or primary host - an organism in which the parasite reaches maturity and reproduces sexually, if possible is known as definitive or primary host.

2 Secondary or intermediate host - an organism that harbors the sexually immature parasite and is required by the parasite to undergo development and complete its life cycle in the host so this is known as Secondary or intermediate host.

3 Vector: Vector means an organism typically insect or tick that transmits a disease or parasite from one animal or plant to another is called vector.

Q:3 Explain the transmission of Plasmodium in your own words?

Ans: Plasmodium: The genus of the class of sporozoa that involves these parasites cause malaria.

The life cycle of *Plasmodium* involves development in blood-feeding insect host which injects parasites into and grows within a vertebrate body tissue before entering the blood stream to infect red blood cells.