

Date - 17/02/2021 B Department of Botany - B.Sc - Part-III (Hons)  
online class J.S. College Ara. Dr. Sunil Pandit Time - 3:00 - 3:50 AM. E. Copy.

Question → What is aflatoxin? How it affect human, plant? Explain the Condition which are favourable for its spread?

Ans → The aflatoxins are secondary metabolites of saprophytic fungi, the aflatoxins are highly injurious to human, animals and plants. Dr. Gilgami of Bangalore University of Bihar has worked on different aspects of the aflatoxins.

Mainly, Aspergillus flavus and A parasitic Fungi secrete it has been reported that the aflatoxins are responsible for Cancer in human being. Rati and Romalingam in 1979 reported that Aspergillus species are more prevalent in winter season. The aflatoxins are highly effective in the poultry form.

In the poultry form, following symptoms show the affected birds from the disease:—

⇒ Deterioration of the health Condition of the bird.

⇒ Haemorrhage leading to death.

The aflatoxins affect the liver, kidneys, adrenal glands (Gilgami and Simba, 1983). The aflatoxin B<sub>1</sub> is mutagenic DNA and chromosomes. Simba et al in 1987 reported that it cause gross damage in chromosomes structure. Breakage in distal part of the chromosome lead to mutagenic effect of the aflatoxins. The different environmental Conditions are responsible for the spread of the aflatoxins. The temperature and humidity are the major determiners of the spreading of the disease. Favourable time of the spreading the aflatoxins are from the month of July - August. High temperature along with high moisture is favourable Conditions. Gilgami and Chaudhary worked for the spreading of the disease from maize plants.

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