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Dept. of Botany - B.Sc - part - III Home

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pages - 2 - Group - B plant pathology

Question → Name five bacterial diseases of crop plants of your locality describe their symptoms?

Ans → Like Fungi, bacteria are also strong pathogens which infects our various crop plants and cause great harm to our economy. Following are some important bacterial diseases which are prevalent in our locality.

	Name of crop plant	Name of bacterial disease	Name of bacteria.
1	Rice (paddy)	Leaf blight	Xanthomonas campestris . p. v. oryzae.
2	Wheat	Yellowing rot of ears	phytophthora tritici
3	wheat	Tundu disease	Corynebacterium tritici
4	Lemon (Citrus)	Citrus Canker	Xanthomonas citri
5	patato	Ring rot.	Corynebacterium sepezonium.

Symptoms :- (i) Leaf blight of rice - The most apparent symptom of this disease is the leaf blight phase during this phase, linear yellow to straw coloured strips with wavy margin develop on both the edges of leaf.

(ii) yellowing rot of Ears of wheat → The leaf stalks and inflorescence become twisted and the spikelets turn into yellow slimy mass due to the attack of bacterium. The diseased spikes do not produce grain.

(iii) Tundu disease of wheat → The lower leaves become wrinkled and the middle leaves twisted. A bright yellow sticky stringy substance is exuded which envelop the whole ear.

(iv) Citrus Canker → The infection occurs almost in every part of the host plant, such as stem, leaves, fruits etc. The disease appears on plant parts on small rounded yellowish patches.

(v) Ring rot of patato → The infection begins from the aerial part of patato. The leaves become wilted and lastly they die. The stem also wilt to some extent.

The most characteristic symptom is the ring rot of patato tubers. The infected tubers when cut into halves, a creamy yellow or light brown, cheesy rot in the tissue surrounding the vascular bundle is seen. There remains a distinct gap between the cortex and vascular system of the infected tuber.

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