

**The Islamia University of Bahawalpur**  
University College of Agriculture and Environmental Sciences

**Department of Entomology**

Midterm	Insects In Relation to Plant Diseases	Exam
Time allowed	ENT-710	1.00 Hours
Max Marks		<u>12</u>

Q1. What do you know about the following plant diseases transmitted by insect vectors (06)

1. Citrus greening
2. Papaya buncy top disease
3. Cucurbit yellow vine disease

Q2. Differentiate between circulative and non circulative and persistent and non persistent types of disease transmission by insect vectors? What are representative examples of diseases caused by vector born pathogens keeping in view the type of pathogens, vector and type of transmission (04)

Q3. What do you know about Dutch elm disease? How is pathogen transmitted by vector (02)