### Faculty of Agricultural Sciences

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#### Syllabus for Admission Test of Ph.D. Entomology

**Section: A  Multiple Choice Questions**

**Research Methodology**

Methods of insect collection; insect collecting equipments; methods of insect preservation and mounting techniques, packing etc.; pesticide application equipments, their use and maintenance; use and operation of BOD incubator, environmental chamber, growth chamber, fermentor, centrifuge, pH meter, microtomy etc. Microphotometry, electron microsopy; photography in research. Insect sampling techniques. Principles of field experimentation, CRD, RBD, LSD, SPD etc. Designs for plant trials, tests of significance of means. Single, two and multiple factorial analysis of variance. Correlation and regression, confounding and missing plot techniques. Computer application. Analysis of data using Excel, SPSS etc. Plagiarism in research.

**Subject specific: Syllabus covering the section- B**

**Section: B  Descriptive: 30 marks** *(03 descriptive questions of 10 marks each based on area of specialization)*


#### Syllabus for Admission Test of Ph.D. Plant Pathology

**Section: A  Multiple Choice Questions**

**Research Methodology**


**Subject specific: Syllabus covering the section- B**

**Section: B  Descriptive: 30 marks**  
(03 descriptive questions of 10 marks each based on area of specialization)


**Syllabus for Admission Test of Ph.D. Plant Nematology**

**Section: A  Multiple Choice Questions**

Research Methodology : 40 marks
Subject specific : 10 marks

**Research Methodology**


**Subject specific: Syllabus covering the section- B**

**Section: B  Descriptive: 30 marks**  
(03 descriptive questions of 10 marks each based on area of specialization)
