Syllabus for Integrated PhD (2015-2016)

PAPER-II (Entomology)

Max. Marks: 100 Time allowed: 3 hours

Unit-1: Collection and Preservation of Insects

1.1 Methods of Collection and Sampling.
1.2 Methods of insect preservation.
1.3 Insect mounting techniques.
1.4 Documentation of insect specimens

Unit-2: Tools, Rearing and Management

2.1 Methods of insect rearing
2.2 Management and maintenance of insectaries
2.3 Entomological tools
2.4 Microphotogarphy and micromorphometry

Unit-3: Collection record and Chemicals

3.1 Chemical composition of various mountants and fixatives
3.2 Methods for preparation of clearing agents
3.3 Review of Literature
3.4 Bibliography writing

Unit IV: Statistics and preparation of manuscript

4.1 a) Sampling methods for collecting data, processing and analysis of data.
   b) Manuscript writing and presentation of data.
4.2 Correlation and regression analysis.
4.3 Tests of significance (t-test and chi-square test).
4.4 Multivariate analysis, non-parametric tests (Mannwhiteny U test) and one way analysis of variance (ANOVA)