

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 Microphotography 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)