

MID-2 EXAM SYLLABUS

Updated Theory and Laboratory Examination Portions

BEFA

- Unit-3(b)

- Unit-4

- Unit-5

Software Testing Methodology (STM)

- Unit-3: From Page No. 32 - **REGULAR EXPRESSION AND FLOW ANOMALY DETECTION** onwards

- Unit-4

- Unit-5

Information Retrieval Systems (IRS)

- Unit-3: From Page No. 12 - **Introduction of Clustering:** onwards

- Unit-4

- Unit-5

Data Visualization Techniques (DVT)

- Unit-3: From Page No. 17 - **Geospatial Data** onwards

- Unit-4

- Unit-5

Data Mining (DM)

- Unit-3: From Page No. 9 - **Bayesian Classification:** onwards

- Unit-4

- Unit-5

Environmental Science (ES)

- Unit-3: From **Hot spots of biodiversity** onwards - Hot spots of biodiversity; Field visit; Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; Conservation of biodiversity: In-Situ and Ex-Situ conservation; National Biodiversity Act.

- Unit-4

- Unit-5

LABORATORY SYLLABUS

STM Lab - Experiments 6-10

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| • Experiment 6: Database checkpoint for custom check |
| • Experiment 7: Database checkpoint for runtime record check |
| • 7(a) Data driven test for dynamic test data submission |
| • 7(b) Data driven test through flat files |
| • 7(c) Data driven test through front grids |
| • 7(e) Batch testing without parameter passing |
| • 7(f) Batch testing with parameter passing |
| • Experiment 8: Data driven batch |
| • Experiment 9: Silent mode test execution without any interruption |
| • Experiment 10: Test case for calculator in Windows application |

Note: Experiment 7(d) is excluded from the Mid-2 syllabus.

SDC Lab - Experiments 4-6

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| • Experiment 4: Simple E-Commerce Application Using React Router |
| • Experiment 5: Dynamic React Form Using Configuration Object |
| • Experiment 6: React SPA with Routing and API Fetching |