

# MultiTest Examination System

Based on the **PRINT & SCAN** concept the **MultiTest Examination** system allows users to create and set tests, coursework or examinations. Supplied either as a stand alone system or with an optional **QUESTIONBANK** module the system supports multiple question types including Extended Matching, True/False, Yes/No, MCQ's (multiple choice questions), Multiple Correct Answers (allowing respondees to mark multiple boxes) etc.

On paper based systems, lecturers can mark the correct answers on a pre-defined form with up to sixty questions allowed or simply select questions from the **QUESTIONBANK** which then automatically generates the correct answers for comparison with the student responses. Screen based form checking, whilst scanning, is included as well as full reporting functions. These include student feedback, batching options, question reliability, discrimination and additional graphical display options are available through the **REPORT WIZARD** which allows reports to be defined to suit individual requirements as well as the ability to exclude questions from the results. **Web** based testing can also be undertaken using forms generated by the system.

The optional **QUESTIONBANK** module allows users to generate questions from a previously created common question pool. It contains a multi-tiered bank option which permits users to have as many sub headings to a main subject title as required. A common question pool can be created as well as password protected subsections for individual administrators or lecturers with speciality options. Question history including reliability, last use, number of times used is incorporated as well as the ability to generate questions randomly from selected sections plus the ability not to repeat the same questions immediately on future selections. Weightings by question and response is available plus the ability to set the correct answer to questions

Remote access to the **QUESTIONBANK** is available whereby administrators/lecturers can select questions from the bank as well as creating new ones. These are then returned to the system administrator electronically who can then generate the forms with the appropriate title headers/ gradings for each question if necessary. Import/export facilities, to and from the system, utilise the IMS standard format, running XML, thus allowing transfers to other systems if required.

The image displays several screenshots from the MultiTest Examination System. At the top left is the 'WebEx' interface showing a map of the United Kingdom. To the right is a 'Question Analysis & Test Summary Report' for the Department of Chemistry, Module 104, dated 28 Oct 01. Below this is a 'Coursework Answer Sheet' with a grid for marking questions 1-5. To the right of that is an 'Examination Answer Sheet' with a grid for marking questions 1-10. At the bottom left are two line graphs showing 'Marking' over time, and a 'STUDENT REPORT SORTED IN ASCENDING ORDER' table with columns for Student Number, Student Name, Percentage, and Test Results.

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