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Degree PhD

Specialization Restoration of Antiquities

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Title of thesis Assessment of the Rates of Deterioration on Mural Painting Layers due to Different Factors and Methods of Treatment, with Application on Some Archaeological Tombs.

Summary The Thesis deals with the rate of deterioration on mural painting layers on the Sawi tombs in Ain Shams area through studying the development of the aspects of deterioration on wall painting on each tomb, and the methods of conservation.

The Thesis included study of the chemical and mineral composition of mural painting layers and salts crystallized on the surfaces of selected tombs , using different methods of analysis and investigations such as: X-Ray Diffraction (XRD) , Scanning Electron Microscope (SEM) equipped provided with (EDX) unit , Ultraviolet spectroscopy(UV) , and Fourier transform Infrared spectroscopy (FTIR).

The experimental part study different kinds of consolidants to figure out the suitable consolidants for consolidation of mural paintings in the selected tombs.

The practical application part included the treatment and conservation of Sawi tombs in Ain Shams area. The conservation work included three projects; the projects were Dismantling and Re-construction of Pnehisy Tomb, Dismantling wa-jahur tomb, and Dismantling Ankh-khensu tomb.

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