

M. Sc. GEOLOGY FIRST SEMESTER

Paper IV

Precambrian Stratigraphy

Code: Geol 104

Unit I

Early history of the earth Nature and evolution of early crust. Nature and form of early life. Evolution of Granite- Greenstone and Granulites belts. Archean and Proterozoic tectonic patterns. Major Stratigraphic breaks and events in Stratigraphy. Episodic nature of the stratigraphic records.

Unit II

Methods of Correlation of Precambrian rocks. Indian Stratigraphic code. Principles of lithostratigraphy. Sequence Stratigraphy. Seismic Stratigraphy, Event Stratigraphy. Geochronology and Chronostratigraphy.

Unit III

Precambrian Stratigraphic belts. Precambrian Geology of Greenland, Canadian Shield, Rhodesian Craton, Western Australia and Baltic Shield with their equivalents in Indian shield.

Unit IV

Precambrian province of India and their Stratigraphic correlation, succession, structure geochronology and economic importance of Dharwar, Singhbhum, Aravalli, Bundelkhand and Sausar – Sakoli.

Unit V

Proterozoic Sedimentary Basins of India: Palaeoproterozoic- Mesoproterzoic and Neoproterzoic – Igneous Intrusions- Evolution of Purana Basins.

