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A Review of Fundamentals of Historical Geology and Stratigraphy of India by Ravindra Kumar

Fundamentals of Historical Geology and Stratigraphy of India is a book by Dr. Ravindra Kumar, a renowned geologist and former president of the Geological Society of India. The book was first published in 1985 and has been reprinted several times since then. It is one of the most comprehensive and authoritative texts on the subject of Indian geology, covering various aspects such as the Precambrian history, the boundary problems, the structural and tectonic evolution, and the paleogeography of the Indian subcontinent.

The book is divided into 12 chapters, each dealing with a specific topic in a systematic and logical manner. The first chapter introduces the basic concepts and principles of historical geology and stratigraphy, such as the geological time scale, the law of superposition, the principle of faunal succession, and the methods of correlation. The second chapter gives an overview of the geological history of India from the Archean to the Quaternary, highlighting the major events and processes that shaped its geology. The third chapter discusses the Precambrian history of India in detail, focusing on the origin and evolution of the Indian shield, its cratons, mobile belts, granites, greenstone belts, and sedimentary basins. The fourth chapter deals with the Paleozoic history of India, describing its stratigraphy, paleontology, paleoclimatology, and paleogeography. The fifth chapter covers the Mesozoic history of India, including its stratigraphy, paleontology, paleoclimatology, paleogeography, and tectonics. The sixth chapter reviews the Cenozoic history of India, covering its stratigraphy, paleontology, paleoclimatology, paleogeography, tectonics, volcanism, and neotectonics.

The seventh chapter focuses on the boundary problems in Indian geology, such as the Precambrian-Cambrian boundary, the Permian-Triassic boundary, the Cretaceous-Tertiary boundary, and the Quaternary-Holocene boundary. The eighth chapter examines the structural geology of India, explaining its major structural elements, such as folds, faults, joints, cleavage, lineations, shear zones, nappes, thrusts, and metamorphic belts. The ninth chapter explores the tectonic geology of India, analyzing its tectonic framework, plate tectonics, continental drifts, collision zones, and mountain building processes. The tenth chapter describes the paleogeography of India, reconstructing its position and configuration through geological time, using various evidences such as paleomagnetism, biogeography, sedimentology, and climatology. The eleventh chapter summarizes the economic geology of India, outlining its mineral resources, such as coal, petroleum,

natural gas, metallic ores, non-metallic minerals, and groundwater. The twelfth chapter provides a bibliography of relevant books and papers on Indian geology for further reading.

Fundamentals of Historical Geology and Stratigraphy of India is a valuable resource for students, teachers, researchers, and professionals interested in Indian geology. It is written in a clear and concise language, with numerous illustrations, diagrams, maps, tables, and photographs to aid understanding. It is based on extensive research and fieldwork by Dr. Ravindra Kumar and other eminent geologists of India. It is updated with recent developments and discoveries in Indian geology. It is a must-read for anyone who wants to learn more about the fascinating geological history and diversity of India.

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