

**B. Sc. Third Year Science 2020-2021**  
**Paper–III: GEOLOGY OF RAJASTHAN AND GROUNDWATER GEOLOGY**

**Time: 3 hrs**

**MM 50**

**UNIT–I**

Geomorphologic division of Rajasthan and their characteristics. Geologic Time Scale and its equivalents in Rajasthan. Banded Gneissic Complex, Aravalli and Delhi Supergroups, their distribution, classification, lithology, and igneous intrusives.

**UNIT–II**

Younger Precambrian formations of Rajasthan. Sirohi Group, Sindhrath Group and Malani Igneous Suite Vindhyan and Marwar Supergroups of Rajasthan, their distribution, classification, lithology, fossil content and economic importance.

**UNIT–III**

Palaeozoic, Mesozoic, Tertiary and Quaternary geology of Rajasthan, their distribution, classification, lithology, fossil content and economic importance.

**UNIT–IV**

Source and origin of groundwater. Hydrologic cycle. Hydrological properties of rocks: Types of aquifers, porosity, permeability, transmissibility, storage coefficient, specific yield and specific retention. Water table, and artesian well. Occurrence of ground water in: igneous, metamorphic and sedimentary rocks.

**UNIT–V**

Ground water prospecting methods, prospecting and Ground water resources in Rajasthan.

**Checked and Approved**  
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(Dr. Maya Chaudhary)

**Checked and Approved**  
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(Dr. Harish Kapasya)

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(Mr. Subhash Chandra Janagal)