

## **B. Sc. THIRD YEAR GEOLOGY PRACTICALS 2019-2020**

Examination will be of four hours duration.

Maximum Marks 75

1. Mineral Resources: Plotting and spotting	15
2. Geoexploration and Principles of Mining: Survey	10
3. Geology of Rajasthan and Groundwater Geology: Plotting and identification	15
4. Field Work	15
5. Viva-Voce	10
6. Record	10
<b>Total</b>	<b>75</b>

### **MINERAL RESOURCES:**

1. Identification and description of important economic mineral and rocks in hand specimen.
2. Plotting of important economic mineral deposits in the outline map of India.

### **GEOEXPLORATION AND PRINCIPLES OF MINING:**

1. Survey: Chain and Plain Table surveying.

### **GEOLOGY OF RAJASTHAN AND GROUND WATER:**

1. Identification and description of important stratigraphic rocks of Rajasthan and their assignment to respective stratigraphic position.
2. Plotting of important stratigraphic units in the outline map of Rajasthan.

### **FIELD WORK:**

Field work for 7-day for studying different mineral deposits and stratigraphic units in Rajasthan.

**Field work is compulsory. Students not attending the field work shall not be allowed to appear in the examination.**

### **Books Suggested, besides the Internet: B. Sc. Part-III**

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**Arogyaswamy R.N.P.:** Courses in Mining Geology, Oxford & IB Publishing Co. Pvt. Ltd., New Delhi.

**Chouhan T. S.:** Encyclopedia of Rajasthan Vol. I, Vigyan Prakashan, Jodhpur.

**Deb, S.,** 1980: Industrial Minerals and Rocks of India. Allied Publ. New Delhi. pp603.

**Garg S. P.:** Groundwater and Tube Wells, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

**Jensen M. L. & Bateman A. M.:** Economic Mineral Deposits, John Wiley & Sons, Singapore

**Kirshnan M. S.:** Geology of India and Burma, CBS Publishers & Distributors, Delhi.

**Krishnaswamy S.:** India's Mineral Resources, Oxford & IBH Publishing Co. Pvt. Ltd., (Revised by R. K. Sinha) New Delhi.1988, 613 p.

**Naqvi S. M. and Rogers J. J. W.:** Precambrian Geology of India. Oxford University Press.

**Pandey S. N.:** Principles and Applications of Photogeology, Wiley Eastern Ltd., New Delhi.

**Peters W. C.:** Exploration and Mining Geology, John Wiley & sons, New York.

**Rao T. C. & Gokhle K. V.:** Ore Deposits of India: Their Distribution and Processing.

**Ravindra Kumar:** Fundamentals of Historical Geology and Stratigraphy of India, Wiley Eastern Ltd., New Delhi.

**Todd D. K.:** Groundwater Hydrology, John Wiley & Sons, Singapore.

**Venkatramaiah C.:** Textbook of Surveying, Universities Press (India) Ltd., 3-5-820, Hyderguda, Hyderabad-500029.