

B. Sc. THIRD YEAR GEOLOGY PRACTICALS 2020-2021

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
Total	75

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 5-day for studying different mineral deposits and stratigraphic units in Rajasthan.

Fieldwork is compulsory. Students not taking part in the fieldwork will not be allowed to appear in the Final Examination.

**Checked and Approved
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(Dr. Maya Chaudhary)

**Checked and Approved
(-sd)**

(Dr. Harish Kapasya)

**Checked and Approved
(-sd)**

(Mr. Subhash Chandra Janagal)

B. Sc. Third Year Science 2020-2021

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

Arogyaswamy R.N.P.: Courses in Mining Geology, Oxford & IBH 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.

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