

M. Sc. GEOLOGY FORTH SEMESTER**Paper V**
405**Practical - I****Code: Geol****Duration: 4 hours****Max. Marks (Ext.)****75****Metamorphic Petrology:**

30

1. Identification and description of important metamorphic rocks in hand specimen.
2. Petrographic studies of important metamorphic rocks.
3. Graphic construction of ACF, AKF and AFM diagrams.

Mineral Exploration & Mining Geology :

30

1. Survey by prismatic compass and theodolite.
2. Leveling
3. Use of GPS
4. Bore hole plotting, core logging and correlation.
5. Ore reserves estimation.

10

Viva-Voce

05

RecordTotal **75**M. Sc. GEOLOGY FORTH SEMESTER**Paper VI**
406**Practical-II****Code: Geol****Duration: 4 hours****Max. Marks (Ext.)****75****Photogeology & Remote Sensing:**

30

1. Scale and height of aerial photographs.
2. Interpretation of aerial photographs.
3. Visual interpretation of satellite imageries.
4. Image analysis exercises.
5. Applications using GIS software.

30

Environmental Geology & Disaster Management:

1. Analysis of different parameters of air, water and noise.
2. Interpretation of air, water and noise data.
3. Preparation of iso-concentration maps of water quality parameters.
4. Seismic maps of World, India and Rajasthan.
5. Geo-hazard maps of India and Rajasthan
6. Exercises on slope failure and landslides.

10

Viva-Voce

05

Record**75**

Total

Compulsory Field Training Program : Geological Study Tour (Mineral Exploration & Mining)

– 10 days duration

Note: Field Training is Compulsory, Student not taking part in the field training shall not be allowed to appear in the examination.

Field Assessment will be done by the Tour-Incharge (s) and will award marks out of **20** which will be equally distributed between Practical I and Practical II