

1. The question paper contains three questions based on the content area namely **mineralogy, economic geology** and **petrology** as given below.

First question consists of one sub question- identification of any one mineral specimen (two specimens shall be provided).

Second question consists of two sub questions-identification of any two economic mineral specimens (four specimens shall be provided).

Third question consists of three sub questions- identification of any three rock specimens (six specimens shall be provided).

Each sub question carries 6 scores.

Students have options to attempt any six sub questions falling in the three main questions. (6 x6 =36 Scores)

2. Record of works to be submitted at the time of practical examination will be based on the actual observations done at the lab by the students based on the content given. These observations have to be recorded as a single entry logbook and the same is considered as the record of work. (4 Scores)

Content areas for Practical evaluation

Unit 1: Mineralogy

Two rock forming minerals are provided.

Identification of any one rock forming mineral is expected.

Unit: 2 (Economic Geology)

Two ore minerals and two industrial minerals are provided.

Any two economic minerals have to be identified.

Unit: 3 (Petrology)

A. Igneous rocks

B. Sedimentary rocks

C. Metamorphic rocks

A total of six rock specimens are provided- two each from igneous, sedimentary and metamorphic types.

Any three rock specimens are to be identified.

**HIGHER SECONDARY EXAMINATION
PRACTICAL EVALUATION**

HSE-II

Geology

Max.scores:40

March 2021

1. Identify any one mineral specimen giving their salient physical properties. (1x6 scores= 6 scores)
2. Identify any two economic mineral specimens giving their salient physical properties. (2x6 scores= 12scores)
3. Identify any three rock specimens comparing their texture and mineralogy. (3x6 scores= 18scores)
(Students have option to identify any six specimens irrespective of mineral, economic mineral or rocks)
4. Practical record/log book (1x4 scores= 4scores)

Scoring key

Identification of mineral/ economic mineral specimens

- i). Diagnosis of any five physical properties- 5 score each
- iii). Identification and nomenclature of the given specimen-1 score each

Identification of rock specimens

- i) Identification of any two textures a rock specimen- 2 score each.
- ii) Identification of essential minerals- 2 score each
- iii) Identification of accessory minerals & description of mineralogy- 1 score each
- iv) Identification and nomenclature- 1 score each