

**Instructions to candidates**

**Duration:** Two (2) hours

**Number of questions:** Two (05) questions

**Answer all the questions**

**Mark allocation:** 100 Marks

1. What is the purpose of cutting and polishing a gem mineral? What criteria are necessary to expose the optimum beauty of a gem on cutting and polishing? [20 Marks]
2. With the aid of diagram describe the standard brilliant cut. [10 Marks]
3. What is the meaning of the term 'geuda'. Name and describe the varieties of geuda. [15 Marks]
4. Describe the process of geuda heat treatment and the type of furnace used and its safety features. [25 Marks]
5. Write short notes on the following gem enhancement methods [10x3 Marks]
  - a. Coating
  - b. Oiling
  - c. Diffusion

