

Bago University
Department of Geology
Second Semester Examination, September 2019

Fourth Year
(Geology Specialization)

Geol. 4113
Gemmology
Time Allowed: (3) Hours

Answer any Five questions with appropriate sketches wherever necessary.

1. Lists the physical properties of gemstone, explain **four** of the most important physical properties and discuss why these properties are important.
 2. Explain the instrument that is used to separate singly and doubly refractive gemstones.
 3. Compare the natural pearl and culture pearl.
 4. Explain about the following gem testing instruments.
 - (a) The instrument that can assist in the differentiation of natural and synthetic emerald
 - (b) The instrument that can identify between genuine and synthetics
 5. Write note on the following:
 - (a) Kyanite
 - (b) Beryl
 6. What is synthetic gemstone? How are synthetic gemstones produced?
 7. Discuss about the treatments that enhanced to improve looks, in order to increase the values of gemstone.
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