



Uva Wellassa University, Sri Lanka
End Semester Examination – March/April 2013
MRT 316-1 Gemmology



Duration: One (01) hour

Answer All Questions

Answers should be elaborated with clear diagrams/sketches where appropriate

1. (i) How do you define a gem mineral? (6 marks)
- (ii) Briefly explain organic gems. (8 marks)
- (iii) Describe imitations and synthetic gems. (12 marks)

2. Briefly describe four major gem species available in Sri Lanka (answer should include classifications, characteristic properties, source and major varieties). (25 marks)

3. (i) What are the basic physical properties measured in gem stones? (12 marks)
- (ii) Briefly describe measuring techniques and nomenclature of gem stones. (13 marks)

4. Write short notes for any three (03) of following,
 - (i) Specific gravity of gems
 - (ii) Luminescence/ fluorescence
 - (iii) Absorption spectra
 - (iv) Refraction and birefringence
 - (v) Chatoyancy and asterism(24 marks)