

Instructions to candidates

Duration: 02 hours

Number of questions: Essay 05

Number of questions to be answered = 04

Mark allocation: 100

Illustrate your answers with sketches/diagrams where necessary

1. What is meant by the term "gemstone enhancement"? What kinds of methods are employed to enhance gemstones? Give suitable examples.
(25 Marks)
2. Describe the following terms:
 - a. Surface diffusion.
 - b. Bulk diffusion.(25 Marks)
3. Jewellery is never made out of 24kt pure gold. It is alloyed to prepare different grades. Explain why. What are the accepted standards of gold used in manufacturing jewellery in the jewellery industry?
(25 Marks)
4. In jewellery designing what are the key factors which must be taken into consideration? Draw a stylized diagram of the round brilliant cut and do the shading with a suitable pencil.
(25 Marks)
5. Name and describe the facets of a standard brilliant cut with the aid of a diagram.
(25 Marks)

