Materials: You may bring writing and drawing instruments to the exam. You may not bring any other materials.

Print your name and student number, and sign, on the top right hand corner of this page.

You have 65 minutes for this exam.

This exam consists of 22 questions. You should attempt all questions. The maximum number of marks for each question is shown in brackets before the question, e.g. [2]. The sum of all marks for all questions is 72. Questions generally appear in the order in which topics were covered in the course. Sections group together questions that relate to a single topic, and section headings indicate the total marks available for questions in that section. You must return this exam paper with your answer booklet. You are allowed to smile.

You might need to consult the following reference material:
   Hexadecimal codes for common ASN.1 types:
   02 INTEGER
   04 OCTET STRING
   06 OBJECT IDENTIFIER
   05 NULL
   30 Universal constructed sequence