APPLIED MATHEMATICS

ADVANCED SUPPLEMENTARY LEVEL

INTRODUCTION

This syllabus serves to examine candidates' knowledge and skills in introductory mathematical and statistical methods, and their applications. For applications of mathematical methods, candidates should understand the methods well enough to be able to apply them in various disciplines, but no prerequisite knowledge of these disciplines is required. Candidates are expected to have acquired knowledge of the subject matter in the Mathematics syllabus of the Hong Kong Certificate of Education Examination. In addition, they are also expected to have a knowledge of the following topics : exponential and logarithmic functions, trigonometry (including compound angle formulas, sum and product formulas), basic operation of complex numbers in standard and polar forms, elementary calculus.

THE EXAMINATION

The examination will consist of one three-hour paper with two sections. Section A (40%) will consist of 6-8 short questions, all of which are to be attempted. Section B (60%) will consist of 5 long questions, of which candidates will be required to answer 4.

Note : Unless the terms of the questions impose specific limitations,
    a.   a candidate may use any appropriate method,
    b.   calculators* may be used in the examination.

THE SYLLABUS

Please refer to Sections II to IV of the Advanced Level Syllabus (i.e. Paper 2 of the Advanced Level Syllabus).

* See Regulation 5.15.