Examination report – December 2010 series

Paper no 2730 – 027 Advanced Mathematics 2

Section 1 – Areas of good performance (question no/syllabus topic or reference)
Syllabus section: 1.2, Differentiation of product reasonably well attempted by candidates. Syllabus section: 1.6, 1.8, Integration was reasonably attempted, as was its evaluation. Syllabus section:1.14, 1.17, Geometric progression was reasonably understood by a number of candidates. Syllabus section: 1.23, Some aspects of partial fractions were understood well by many candidates. Syllabus section: 1.24, 1.27, 1.28, In general, manipulating matrices was well attempted by most candidates Syllabus section: 1.35, 1.36, Simultaneous equation solution using determinants was reasonably attempted by most candidates. Syllabus section: 1.24, 1.38, Laplace transforms was reasonably well understood by a number of candidates. Use of determinants to solve equation was reasonably well attempted. Syllabus section: 1.41, 1.42, The easier inverse Laplace transforms were reasonably well attempted by many candidates.
Section 2 – Areas for development (question no/syllabus topic or reference)
Syllabus section: 1.5, Simpsons's rule was fairly poorly attempted by candidates. Syllabus section: 1.11, Maclaurin's series was poorly attempted by candidates. Syllabus section: 1.13, Binomial expansion was poorly attempted by many candidates. Syllabus section: 1.18, 1.21, (a)/ (b) Powers and roots of complex numbers was poorly attempted by many candidates. (c) Exponential form of complex number was not well understood by majority of candidates. Syllabus section: 1.43, 1.44, 1.45, 1.46, Solving a differential equation using Laplace transforms was poorly attempted