Examination report – June2011 series

2730-027 Advanced mathematics 2

Section 1 – Comments of performance
Syllabus reference: 1.2, 1.5. Differentiation of product reasonably well attempted by candidates. Simpsons's rule was fairly poorly attempted by candidates. Syllabus reference: 1.6, 1.8, 1.11. Integration was reasonably attempted, as was its evaluation. Maclaurin's series was poorly attempted by candidates. Syllabus reference: 1.13, 1.14, 1.17. Geometric progression was reasonably understood by a number of candidates. Binomial expansion was poorly attempted by many candidates. Syllabus reference: 1.18, 1.21. Powers and roots of complex numbers was poorly attempted by many candidates. Exponential form of complex number was not well understood by majority of candidates. Syllabus reference: 1.23. Some aspects of partial fractions were understood well by many candidates. Syllabus reference: 1.24, 1.27, 1.28. In general, manipulating matrices was well attempted by most candidates. Syllabus reference: 1.35, 1.36. Simultaneous equation solution using determinants was reasonably attempted by most candidates. Syllabus reference: 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 reference: 1.43, 1.44, 1.45, 1.46. Solving a differential equation using Laplace transforms was poorly attempted. Syllabus reference: 1.41, 1.42. The easier inverse Laplace transforms were reasonably well attempted by many candidates.