Examination report – June2011 series

2730-020 Advanced mathematics 1

Section 1 – Comments of performance
Syllabus reference: 1.2, 1.4, 1.19. Solving quadratic equations proved difficult for many candidates. Many candidates obtained good marks for the binomial expansion. Syllabus reference: 1.10, 1.11, 1.12, 1,13, 1.15. Straight line graph was reasonably well understood by many candidates. Syllabus reference: 1.6, 1.7, 1.28, 1.33. Many candidates obtained good marks for inverse proportion. Product and division of complex numbers was reasonably well attempted by most candidates. Syllabus reference: 1.30, 1.31, 1.35, 1.36. Solving and evaluating in Cartesian and polar forms was not well attempted by many candidates. Syllabus reference: 1.22, 1.23, 1.25. Straight line form using logarithms was very poorly understood by most candidates. Syllabus reference: 1.43, 1.49, 1.50. Most candidates obtained some marks on sinusoidal function calculations, however, many marks were poor. Syllabus reference: 1.52. Very little idea of compound angle form was evident. Syllabus reference: 1.55, 1.56, 1.57, 1.58. Some candidates obtained some marks for turning point. Definite integrals was reasonably attempted by many candidates. Syllabus reference: 1.62, 1.63, 1.64, 1.68, 1.70. Most candidates did not understand probability calculations. Permutations and combinations was well understood by many candidates. Syllabus reference: 1.49, 1.50. Binomial probability and the probability histogram was poorly attempted by the majority of candidates.