

Feedback for EEE6011 Session: 2013-2014

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

Overall exam average is about right.

Question 1:

Best answered question.

- (a) Most answered this correctly.
- (b) Generally well answered. Marks were lost for not clearly developing each stage of the analysis and not showing how variables were cancelled when making substitutions for example.
- (c) Relied on knowing the difference between radiation resistance and input impedance, plus half wave dipole impedance.

Question 2:

Reasonable question average.

- (a) The key to this was getting the electrical height of the antenna in wavelengths correct at each frequency.
- (b) A few did not use the complementary elevation angle in the sine rule.
- (c) Most realized the benefits of fewer hops, but few linked the elevation angles with the antenna main lobes at each frequency.

Question 3:

Reasonable question average.

- (a) Generally well answered. Marks were lost for not making well explained substitutions using the Bessel functions.
- (b) Marks were lost here for not properly explaining the working.

Question 4:

Lowest question average.

- (a) Crossed dipoles as a source of elliptical/circular polarization needed their relative excitations explaining.
- (b) Few managed to succinctly state the key points in the analysis.
- (c) Some did not properly use the phase shift between field components.