Jules' Workshop

Standard

Unit 16 – QUESTIONS

Q1 What is the role of an antenna?

Q2 What are the three main groupings of antennas?

Q3 What is an isotropic antenna?

Q4 Name five types of antennas?

Q5 Complete the following table.

Antenna	Input Impedance	Balanced / Unbalanced	Grouping
Half wave dipole	72Ω	Balanced	Semi directional
Folded dipole			
Inverted V			
End fed half wave			
Quarter wave Vertical			
Yagi			
Trapped dipole			

Q6 Draw the current and voltage field on a half wave dipole.

Q7 Draw the current and voltage field on a full wave dipole.

Q8 What are the three methods of polarising and antenna?

Q9 Why is the height of an antenna important for an amateur operator?

Q10 Explain how an antenna can have Gain and efficiency.

Q11 What is the difference between ERP and EIRP?

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Q12 RF EMR is one hazard when working with antennas. What is the other just as important hazard?

Q13 If an antenna undertest resonates at a higher frequency than expected, is the antenna to short or too long?

Q14 The antenna in Q13 resonates at a frequency higher than expected, is capacitive reactance or the inductive reactance highest?

Q15 What is a capacitance hat on an antenna?

Q16 Polarisation of an antenna is related to voltage field or the magnetic field?

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