



**ADVANCED**

**Lesson 14 – QUESTIONS**

- Q1 Describe how a dynamic speaker works.
- Q2 What are ZS, ZO and ZL?
- Q3 Name an unbalanced transmission line.
- Q4 Name a balanced transmission line.
- Q5 What is a waveguide?
- Q6 How do you test a transmission line to measure the impedance?
- Q7 From the previous test, you got results of  $500 \Omega$  and  $100 \Omega$ . What is the impedance of the line?
- Q8 What is the velocity factor of cables?
- Q9 Explain what is the SWR?
- Q10 Measuring the signal on a transmission line, the maximum is 12 V and the minimum is 2 V. What is the SWR?
- Q11 Measuring the power of the signal on a transmission line, the maximum is 12 W and the minimum is 2 W. What is the SWR?
- Q12 How are cable losses quantified?
- Q13 What is a balun?

- Q14 Connecting a balanced line of  $450 \Omega$  to an unbalanced line of  $50 \Omega$ . What are the turns ratio for the balun?
- Q15 Name and draw two common ATU configurations.
- Q16 What is a piezo electric speaker?

