

**Lesson 14 – QUESTIONS**

- Q1 Describe how a dynamic speaker works.
- Q2 What are Z<sub>S</sub>, Z<sub>O</sub> and Z<sub>L</sub>?
- 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 Ω and 100 Ω. 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 Ω to an unbalanced line of 50 Ω. What are the turns ratio for the balun?

Q15 Name and draw two common ATU configurations.

Q16 What is a piezo electric speaker?

