



Benha University
Faculty of Engineering
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Electronic circuits (B)

Electrical Eng. Dept.
3rd year communication
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Sheet (4) – supplementary

Oscillators – part 1

1. What is an oscillator?
2. What type of feedback does a feedback oscillator require?
3. What is the purpose of feedback circuit?
4. Name the 2 types of oscillators?
5. What are the two conditions required for a circuit to oscillate?
6. Define the positive feedback?
7. What is the voltage gain condition for oscillators start up?
8. There are two feedback loops in Wein-bridge oscillators. What is the purpose of each?
9. A certain lead-lag circuit has $R_1=R_2$, $C_1=C_2$. An input voltage of $5V_{rms}$ is applied. The input frequency equals the resonant frequency of the circuit. What is the rms output voltage?
10. What type of input is required for an oscillator?
11. What are the basic components of an oscillator circuit?

Good Luck

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