

**PHYSICS – 201**  
**(Term 061)**  
**QUIZ # 2**

Instructor: Dr. Al-Solami

Student's Name \_\_\_\_\_ ID # \_\_\_\_\_ Sec \_\_\_\_\_

Q. 1 In an RLC circuit,  $U_m=10\text{ V}$ ,  $R = 10\Omega$  and  $L = 1.0\text{ H}$ , and  $C=1.0\ \mu\text{F}$ . Find the amplitude of the voltage across the inductor at resonance.

Q. 2 At what frequency would a,  $10\ \mu\text{H}$  inductor and  $10\ \mu\text{F}$  capacitor have the same reactance?