14.	Which of the following is a requirement for a serie	es-resonant RLC circuit?	02
eng.	A. <i>L</i> = <i>C</i> B. <i>R</i> = <i>C</i>	$\begin{array}{c} \mathbf{C.} R = L \\ \mathbf{D.} X_L = X_C \end{array}$	5 1
15.	In a series-resonant RLC circuit, the voltage acro	ss <i>L</i> is with the voltage	across C.
(A. in phase B. 90° out of phase	 C. 180° out of phase D. 270° out of phase 	34
16.	What is the sum of 130 + j180 and 5 - j30?		
	A. 135 + j210 B. 135 + j150	C. $135 - j150$ D. $(135^2) + (J150)^2$	
17.	40∠40° × 30∠20° equals		
	A. 1200∠60° B. 70∠80°	C. 70∠800° D. 0.75∠60°	
18.	Which of the following is equal to the angular velo	ocity (ω)?	
	A. $ω = 2fC$ B. $ω = 2πL$	C. $\omega = 2\pi R$ D. $\omega = 2\pi f$	
19.	Parasitic oscillations can be caused by		
-C	 A distributed components. B. very low capacitance in an RLC circuit. C. very low inductance in an RLC circuit. D. very high resistance in an RLC circuit. 	55	

C. A long piece of wireD. Back-to-back transistors

20. Which of the following is a parasitic suppressor?

A. Bead ledge

B. Ferrite bead