

1.	(a) (b) (c)	lator circuit usesfeedback. Positive Negative Both a and b Neither a nor b		
2.	An oscillator converts			
		a.c. power into d.c. power		
		d.c. power into a.c. power		
	(c)	mechanical power into a.c. power		
	(d)	none of the above		
3.	In an LC transistor oscillator, the active device is			
	(a)	LC tank circuit		
	(b)	Biasing circuit		
	(c)	Transistor		
	(d)	None of the above		
4.		LC circuit, when the capacitor is maximum, the inductor sy is		
	(a)	Minimum		
	(b)	Maximum		
	(c)	Half-way between maximum and minimum		
	(d)	None of the above		
5.	In an C.	LC oscillator, the frequency of oscillator is L or		
	(a)	Proportional to square of		



	(b)	Directly proportional to	
	(c)	Independent of the values of	
	(d)	Inversely proportional to square root of	
6.	An oscillator produces oscillations		
	(a)	Damped	
	(b)	Undamped	
	(c)	Modulated	
	(d)	None of the above	
7.	An LC oscillator cannot be used to produce		
	_	uencies	
	, ,	High	
	` ,	Audio	
	(c)	Very low	
	(d)	Very high	
8.	In a phase shift oscillator, we use RC sections		
		Two	
	(b)	Three	
	(c)	Four	
	, ,	None of the above	
Q	In a	phase shift oscillator, the frequency determining elements are	
フ.	in a phase sinit oscinator, the frequency determining elements are		
	(a)	L and C	
	` /	R, L and C	
	` ′	R, E and C	
	` ′	None of the above	
		N. /	



10.	The piezoelectric effect in a crystal is	
(a)	A voltage developed because of mechanical stress A change in resistance because of temperature	
(b)		
(c)	A change in frequency because of temperature	
(d)	None of the above	
11.	If the crystal frequency changes with temperature, we say	
that	crystal has temperature coefficient	
(a)	Positive	
(b)	Zero	
(c)	Negative	
(d)	None of the above	
12.	The crystal oscillator frequency is very stable due to of the crystal	
(a)	Rigidity	
(b)	Vibrations	
(c)	Low Q	
(d)	High Q	
13.	Hartley oscillator is commonly used in	
(a)	Radio receivers	
(b)	Radio transmitters	
(c)	TV receivers	
(d)	None of the above	
14.	The application where one would most likely find a crystal	
OSC1	llator is	



(a)	Radio receiver
(b)	Radio transmitter
(c)	AF sweep generator
(d)	None of the above
15.	An oscillator differs from an amplifier because it
(a)	Has more gain
(b)	Requires no input signal
(c)	Requires no d.c. supply
(d)	Always has the same input
16.	One condition for oscillation is
(a)	A phase shift around the feedback loop of 180 ⁰
(b)	A gain around the feedback loop of one-third
(c)	A phase shift around the feedback loop of 00
(d)	A gain around the feedback loop of less than 1
` ,	
17.	A condition for oscillations is
(a)	
(b)	No gain around the feedback loop
(c)	The attention of the feedback circuit must be one-third
(d)	The feedback circuit must be capacitive
()	1
18.	For an oscillator to properly start, the gain around the
feedl	back loop must initially be
(a)	1
(b)	Greater than 1
(c)	Less than 1
(d)	Equal to attenuation of feedback circuit



, ,	In Colpitt's oscillator, feedback is obtained By magnetic induction By a tickler coil From the centre of split capacitors None of the above
20.	Quartz crystal is most commonly used in crystal oscillators
	use
(a)	It has superior electrical properties
, ,	•
, ,	It is quite inexpensive None of the above
(u)	None of the above
21.	Which is a fixed frequency oscillator
(a)	Phase-shift oscillator
(b)	Hartely-oscillator
(c)	Colpitt's oscillator
(d)	Crystal oscillator
22.	In an LC oscillator, if the value of L is increased four times,
the fi	requency of oscillations is
(a)	Increased 2 times
(b)	Decreased 4 times
(c)	Increased 4 times
(d)	Decreased 2 times
23.	A Wien bridge oscillator uses feedback
(a)	Only positive
(b)	Only negative



- (c) Both positive and negative
- (d) None of the above
- 24. In a Wien-bridge oscillator, if the resistances in the positive feedback circuit are decreased, the frequency........
 - (a) Remains the same
 - (b) Decreases
 - (c) Increases
 - (d) Insufficient data
- 25. The signal generator generally used in the laboratories is oscillator
 - (a) Wien-bridge
 - (b) Hartely
 - (c) Crystal
 - (d) Phase shift
- 26. An ideal operational amplifier has
 - (a) infinite output impedance
 - (b) zero input impedance
 - (c) infinite bandwidth
 - (d) All of the above
- 27. Which of the following oscillator uses a capacitive voltage divider circuit to provide feedback?
 - a. Hartley
 - b. RC phase shift
 - c. Colpitts
 - d. Wein bridge



- 28. The oscillator that gives good frequency stability is
 - a. Hartley oscillator
 - b. RC phase shift oscillator
 - c. Crystal oscillator
 - d. Wein bridge oscillator
- 29. Which of the following oscillator cannot be used in low frequency oscillations?
 - a) Wein bridge oscillators
 - b) RC phase shift oscillators
 - c) Colpitts oscillators
 - d) RC oscillators
- 30. Relaxation oscillators are also known as _____
 - a) Multivibrator
 - b) Phase shift oscillators
 - c) Blocking oscillators
 - d) Saw tooth generator
- 31. Multivibrators belongs to which of the following category?
 - a. Square wave oscillators
 - b. Sinusoidal oscillators
 - c. Ramp wave oscillators
 - d. Triangular wave oscillators