(A) 31.8 Ampere

(B) 3.18 Ampere

## Choose the correct answer for the following questions:

1.	RMS value or effective value for the $V(t)$ signal is given by:					
	(A) $\sqrt{\frac{1}{T} \int_0^T V(t) dt}$	(B) $\sqrt{\frac{1}{T} \int_0^T V^2(t) dt}$	(C) $\frac{1}{T} \int_0^T V(t) dt$	(D) none		
2.	Average value for the $V(t)$ signal is given by:					
	(A) $\sqrt{\frac{1}{T} \int_0^T V(t) dt}$	(B) $\sqrt{\frac{1}{T} \int_0^T V^2(t) dt}$	(C) $\frac{1}{T} \int_0^T V(t)dt$	(D) none		
3.	The time period of a period (A) 0.1 Hz	ic signal is 10 milli sec. What (B) 10 Hz	is its frequency? (C) 100 Hz	(D) You know		
4.	What is the time period for (A) 10 sec	the signal $V(t) = 100 sin(10t)$ (B) 0.628 sec	? (C) 1.591 sec	(D) 100 sec		
5.	What is the Angular frequence (A) $10\pi \text{ rad/sec}$	ncy for the signal $V(t) = 100s$ (B) 100 rad/sec	in(10t)? (C) 141.414 rad/sec	(D) 10 rad/sec		
6.	An AC current given by $i =$ (A) 10	$14.14sin(\omega t + \frac{\pi}{6}) \text{ has an RM}$ (B) 14.14	S value or effective value of (C) 1.96	amperes. (D) 7.07		
7.	A Voltage sine wave has a p (A) 70.71 V	eak value of 100 Volt. What i (B) 141.42 V	s its effective value? (C) 100 V	(D) 50 V		
8.	The RMS value of a sine wa (A) 100 Volt	we form is 100 Volt. What is a (B) $100\sqrt{2}$ Volt	its effective value? (C) $\frac{100}{\sqrt{2}}$	(D) None		
9.	The RMS value of a sine wa (A) 70.71 V	we form is 100 Volt. What is (B) 141.42 V	its peak value or amplitude? (C) 100 V	(D) 50 V		
10.	The RMS value of a sine wa (A) $70.71~\mathrm{V}$	we form is 100 Volt. What is (B) 141.42 V	its peak-peak value? (C) 200 V	(D) $200\sqrt{2}$ Volt		
11.	The frequency of a sine wave (A) 200 rad/sec	e is 100 Hz. What is its angulation (B) $200\pi \text{rad}$	ar frequency? (C) 0.01 sec	(D) $200\pi \text{rad/sec}$		
12.	what is the frequency of DC (A) $0~\mathrm{Hz}$	voltage? (B) 50 Hz	(C) unity Hz	(D) None		
13.	Which of the following is a real (A) Square wave	non sinusoidal signal? (B) Triangular wave	(C) sawtooth Wave	(D) All the above		
14.	A pure inductive circuit has (A) 31.41 $\Omega$	an inductance of 10 milli hen (B) 31.41 Henry	ry at 50 Hz. What is its reaction (C) 3.141 $\Omega$	tance? (D) None		
15.	How much voltage is necessar (A) 31.41 $\Omega$	ry to cause 10 milli Ampere to (B) 31.41 Volt	flow through an inductance of (C) 0.314 Volt	f 50 milli henry at 100 Hz? (D) None		
16.	flow much voltage is necessary to cause 10 milli Ampere to flow through an inductive reactance of 50 ohms at 100 z?					
	(A) 5 Volt	(B) 0.5 Volt	(C) 50 Volt	(D) None		
17.	An ac voltage of 100 volt is applied across an inductive reactance of 50 ohms at 50 Hz? What is the value of current passing through Inductor?					
	(A) 2 Ampere	(B) 20 Ampere	(C) 200 Ampere	(D) None		
18.	An ac voltage of 100 volt is a through Inductor?	applied across an inductance of	of 50 milli henry at 100 Hz? V	What is the value of current passing		

(C) 0.318 Ampere

(D) None

19.	How much voltage is necessary to cause 10 mA to flow through 100 $\Omega$ resistor in series with 15 mH choke at 400Hz?					
	(A) 1 V	(B) 1.3769 V	(C) $0.3769 \text{ V}$	(D) 1.06 V		
20.	A pure capacitive circuit has an capacitance of 10 $\mu$ Farad at 50 Hz. What is its reactance?					
	(A) 31.41 $\Omega$	(B) 31.41 Farad	(C) 318.30 $\Omega$	(D) None		
21.	How much voltage is necessary to cause 10 milli Ampere to flow through an capacitance of 50 micro farad at $100~\mathrm{Hz}$ ?					
	(A) 31.8 $\Omega$	(B) 31.81 Volt	(C) 0.318 Volt	(D) None		
22.	How much voltage is necessary to cause $10$ milli Ampere to flow through an capacitive reactance of $50$ ohms at $100$ Hz?					
	(A) 0.05 Volt	(B) 0.5 Volt	(C) 5 Volt	(D) None		
23.	An ac voltage of $100$ volt is applied across a capacitive reactance of $50$ ohms at $50$ Hz? What is the value of current passing through capacitor?					
	(A) 2 Ampere	(B) 20 Ampere	(C) 200 Ampere	(D) None		
24.	An ac voltage of 100 volt is a through capacitor?	applied across an capacitance of	of 50 micro farad at 100 Hz? V	What is the value of current passing		
	(A) 31.4 Ampere	(B) 3.14 Ampere	(C) 0.314 Ampere	(D) None		
25. How much voltage is necessary to cause 10 mA to flow through 100 $\Omega$ resistor in series with 15 $\mu$ Farad of 400Hz?						
	(A) 1.03 Volt	(B) 10.3 Volt	(C) 103 volt	(D) None		
26.	The reactance offered by a capacitor to alternating current of frequency 50 Hz is $10\Omega$ . If frequency is increased to $10$ reactance becomesohm.					
	(A) 20	(B) 5	(C) 2.5	(D) 40		
27.	In a purely capacitive circuit, Voltage the current by 90 degrees.					
	(A) lags	(B) leads	(C) Both A and B	(D) None		
28.	In a purely Inductive circuit, Voltagethe current by 90degrees.					
	(A) lags	(B) leads	(C) Both A and B	(D) None		
29.	In purely resistive circuit Voltage and current are inphase.					
	(A) lags	(B) leads	(C) same	(D) Different		
30.	In a series RL circuit, $V_L$ $V_R$ by 90 degrees.					
	(A) lags	(B) leads	(C) equals	(D) none		
31.	In a series RC circuit, $V_C$ $V_R$ by 90 degrees.					
	(A) lags	(B) leads	(C) equals	(D) none		
32.	Impedance is given by the vector sum of					
	(A) conductance and suceptance		(B) resistance and conductance			
	(C) Resistance and reactance		(D) Suceptance and resistance			

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