

## ECAT Pre General Science Physics Chapter 16 Alternating Current

Sr	Questions	Answers Choice
Si	Questions	
1	Peak value of alternative current is:	A. one of its Instantaneous value B. Equal to its RMS value C. The same as its peak-to-peak value D. Both (B) and (C) E. None of these
2	The output voltage of half wave rectification is in the form of	A. a smooth curve B. a smooth wave C. pulses D. all of the above
3	The entire wave form of sinusoidal voltage is actually a set of all the:	A. Positive maximum value + V <sub>o</sub> and negative maximum value -V <sub>o</sub> B. Posiotive maximum value +V <sub>o </sub> and zero C. Zero and negative maximum value -V <sub>o</sub> D. Any of these E. None of these
4	For the normal operation of the transistor, its	A. emitter-base and collector base junctions are forward biased B. emitter-base junction is reversed biased and collector base junction is forward biased C. emitter-base junction is forward biased and collector-base junction is reverse biased D. any one of these
5	A changing magnetic flux creates around itself	A. An electromotive force B. An electric field (changing electric flux) C. Magnetic field D. None of the above
6	In series RC circuit when R= $\rm X_{\rm c}$ , then the phase angle is	A. 0 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> B. 90 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> C. 70 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> D. 45 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span>
7	The open loop gain of OP-AMP is of the order of	A. 10 <sup>2</sup> B. 10 <sup>3</sup> C. 10 <sup>4</sup> D. 10 <sup>5</sup>
8	The RMS value of alternating current is:	A. 0.7 times at the peak value B. 0.5 times the peak value C. 0.7 times the Instantaneous value D. Equal to maximum voltage E. None of these
9	An A.C. voltmeter read 250 volts. The frequency of alternating is 50 Hz, the peak value of voltage is	A. 3525.0 volts B. 35.35 volts C. 353.5 volts D. 3.535 volts
10	Unless stated otherwise, when we speak of A.C. meter reading, we usualy mean:	A. Peak value B. RMS value C. Instantaneous value D. Peak-to-peak value E. Both (A) and (C0
11	The value of current gain of n-p-n transistor is of the order of	A. tens B. hundreds

		C. thousands D. ten thousands
12	At higher frequency of the alternating current, the capacitive reactance $X_{\!\scriptscriptstyle C}$	A. Increases B. Decreases C. Remains the same D. Increases only when the voltage increases
13	When the emitter-base junction of a transistor is reverse biased, collector current	A. Reverses B. Increases C. Decreases D. Stops
14	A digital system deals with quantities or variables which have	A. only one state B. only two discrete states C. three discrete states D. four discrete states
15	The amplifier which us used to perform mathematical operations electronically is known as	A. calculator B. OP-AMP C. computer D. any one of them
16	Alternating current can be transmitted:	A. To long distance B. At very high cost C. At very low cost D. Both (A) and (C) E. Both (A) and (B)
17	The power factor of resonant series circuit is	A. 1 B. 0 C1 D. 0.5
18	Chock consumes externally small	A. Charge B. Current C. Power D. Potential
19	Which one of the following waves belongs to electromagnetic spectrum	A. Radio and TV waves B. Radar waves C. Micro waves D. All of them
20	OP-AMP has the following input terminals	A. one B. two C. three D. four