

## Physics ECAT Pre Engineering Chapter 16 Alternating Current Online Test

Sr	Questions	Answers Choice
1	The highest value reached by the voltage or current:	A. In quarter cycle is called Instantaneous value B. In half cycle is called peak-to-peak value C. In one cycle is called peak value D. In half cycle is called Instantaneous value E. None of these
2	The entire wave form of sinusoidal voltage is actually a set of all the:	A. Positive maximum value + $V_{\text{max}}$ and negative maximum value - $V_{\text{max}}$ B. Positive maximum value + $V_{\text{max}}$ and zero C. Zero and negative maximum value - $V_{\text{max}}$ D. Any of these E. None of these
3	The waveform of alternating voltage is a:	A. Square B. Rectangular C. Saw-tooth D. Sinusoidal E. None of these
4	The wave form of alternating voltage is the graph between:	A. Voltage across X-axis and time across y-axis B. Current and time C. Voltage along y-axis and time along x-axis D. Voltage and current E. Either (B) or (D)
5	The most common source of alternating voltage is:	A. Motor B. Transformer C. AC generator D. Both (A) and (C) E. Both (A) and (B)
6	The time interval during which the Voltage source changes its polarity once is known as:	A. Time period T B. Half the time period C. Quarter the time period D. Two third of the time period E. None of these
7	Nowadays, Most of the electric energy is produced by the A.C. generators using:	A. Hydal water B. Geothermal energy C. Solar energy D. Biomass E. Both (B) and (D)
8	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval $T/2$ E. Both (C) and (D)
9	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)
10	A P-N junction or semiconductor diode cannot be used as	A. A rectifier B. Detector C. Oscillator D. An amplifier
11	In describing functions of digital systems, a closed switch will be shown as	A. 0 B. 1 C. low D. any one of these
		A. high - low

12	Mathematical manipulation of the two quantized states can be best carried if they are represented by	B. yes - no C. on - off D. 0 - 1
13	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
14	Most OP-AMP operates with	A. $\pm 6$ V supply B. $\pm 10$ V supply C. $\pm 12$ V supply D. $\pm 24$ V supply
15	The $R_1 = \infty$ and $R_2 = 0$ , then the gain of non-inverting amplifier is	A. zero B. infinity C. one D. any one of these