

ECAT Physics Chapter 16 Alternating Current Online Test

Sr	Questions	Answers Choice
1	The phase angle of a series RLC circuit at resonance is	A. 180 ° B. 90 ° C. 0 ° D. None of the these
2	Which one of the following is correct?	A. V _o = 1.414 V _{rms} B. I _{ams} = 1.414 I _o C. VO = 10.70 Vrms D. Both a and b
3	During the negative half-cycle of the half-wave rectification, the diode	A. does not conduct B. conducts C. either of these D. none of these
4	Conversion of alternating current into direct current is called	A. amplification B. rectification C. conduction D. polarization
5	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)
6	In which of the following components, pn-junction is used	A. light emitting diode B. photo diode C. photo voltaic cell D. all of these
7	The magnitude of alternative voltage V:	A. Always increase B. Always decrease C. Remains constant D. Does not remain constant E. None of these
8	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
9	The average of A.C. current and voltage over a complete cycle is	A. Maximum B. zero C. Neither zero nor maximum D. None of these
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	A signal is amplified at the output without any change of phase, if it is applied at the	A. inverting input B. non-inverting input C. at any of the input D. none of these
12	Which of the following diode is used for the detection of light	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them

13	The R_1 = infinity and R_2 = 0, then the gain of non-inverting amplifier is	A. zero B. infinity C. one D. any one of these
14	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
15	The closed loop gain of the inverting amplifier is written as	A. G = R ₂ /R ₁ B. G = 1 + R ₂ /R ₁ C. G = - R ₂ /R ₁ D. G = 1 - R ₂ /R ₁
16	Chock consumes externally small	A. Charge B. Current C. Power D. Potential
17	Alternating current can induce voltage because it has a	A. High peak valueB. Varying magnetic fieldC. Stronger field than direct currenD. Constant magnetic field
18	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
19	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)
20	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)