

ECAT Physics Chapter 16 Alternating Current

Sr	Questions	Answers Choice
1	In n-p-n transistor, emitter base junction is kept	A. reversed B. forward biased C. may be reversed or may be forward biased D. none of these
2	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)
3	The value of current gain of n-p-n transistor is of the order of	A. tens B. hundreds C. thousands D. ten thousands
4	In a transistor, the central region is called	A. collector B. emitter C. base D. none of them
5	During the positive half-cycle in the half-wave rectification, the diode	A. does not conduct B. conducts C. either of these D. neither of these
6	Which of the following diodes can operate in the reverse biased condition	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
7	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
8	At resonance, the impedance of RLC series circuit is	A. Maximum B. Zero C. Minimum D. Determinate
9	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)
10	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
11	A P-N junction or semiconductor diode cannot be used as	A. A rectifier B. Detector C. Oscillator D. An amplifier
12	A signal appears after amplification, at the output terminal with a phase shift of 180° , if it is applied at	A. inverting input B. non-inverting input C. any one of the input terminal D. none of them
13	In a normally biased n-p-n transistor, an electron c current I_E flows from the	A. emitter into the base B. collector into the base C. base into collector D. none of these
14	When electrons in the transmitting antenna vibrate 94000 time per second, they produce radiowaves having frequency	A. 9.4 kHz B. 940 kHz C. 94 kHz D. 9400 kHz

		D. None of these
15	Unless stated otherwise, when we speak of A.C. meter reading, we usually mean:	A. Peak value B. RMS value C. Instantaneous value D. Peak-to-peak value E. Both (A) and (C)
16	Mathematical manipulation of the two quantized states can be best carried if they are represented by	A. high - low B. yes - no C. on - off D. 0 - 1
17	Average value of A.C voltage during one cycle is	A. 1 B. Zero C. Maximum D. Variable
18	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
19	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)
20	Alternating current can induce voltage because it has a	A. High peak value B. Varying magnetic field C. Stronger field than direct current D. Constant magnetic field