

ECAT Physics Chapter 16 Alternating Current

Sr	Questions	Answers Choice
1	When a transistor is used as a switch the circuit in which the current is to be switched OFF and ON, is connected between the	A. base and emitter B. collector and emitter C. base and collector D. any one of these
2	To design a resonant circuit of frequency 100 KHz with an inductor of inductance 5 mH, we need a capacitor of capacitance	A. 5.07 pF B. 50 pF C. 0.507 pF D. 507 pF
3	The bridge circuit of full wave rectification uses	A. one diode B. two diode C. three diode D. four diode
4	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
5	A P-N juction or semiconductor diode cannot be used as	A. A rectifier B. Detector C. Oscillator D. An amplifier
6	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. None of these
7	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
8	The total reactance of a series RLC circuit at resonance is	A. zero B. Equal to the resistance C. Infinity D. Capacitive
9	In a transistor, if the central region is n-type, then this type of transistor is known as	A. n-p-n transistor B. p-n-p transistor C. either of these D. none of these
10	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
11	The input resistance of the OP-AMP is the resistance between the	A. (-) input and output B. (+) input and output C. (-) and (+) inputs D. between any inputs
12	The length of rotating vector (on a certain scale) represents the:	A. Peak value of alternating quantity B. RMS value of alternating quantity C. Instantaneous value of alternating quantity D. Either (B) or (C) E. Either (A) or (B)
13	In RLC series circuit, resonance occurs when	A. X _{L > Xc} B. X _{L < Xc} C. X _{L = Xc} D. None of these
14	The basic circuit elements of A.C circuit are	A. Resistor B. Inductor C. Capacitor D. All the three

15	In a transistor, the central region is called	A. collector B. emitter C. base D. none of them
16	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
17	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
18	The phase at the positive peak of an A.C. cycle is:	A. 0 o class="MsoNormal" style="fext-align:justify"> <o:p><</o:p>
19	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)
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A signal appears after amplification, at the suspect terminal man a phase since is too it, in the applied at

C. any one of the input terminal D. none of them