

ECAT Physics Chapter 16 Alternating Current Online Test

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Sr	Questions	Answers Choice
1	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)
2	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
3	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
4	The magnitude of alternative voltage V:	A. Always increase B. Always decrease C. Remains constant D. Does not remain constant E. None of these
5	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
6	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
7	For normal operation of transistor, the batteries	A. V _{CC} is of much lower value than V _{BB} B. V _{CC} is of much higher value than V _{BB} C. V _{CC is equal to} V _{BB} D. none of these
8	The sum of positive and negative peak values is called:	A. Instantaneous value B. Peak value C. Rms valuie D. Peak-to peak-value E. None of these
9	Average value of A.C voltage during one cycle is	A. 1 B. Zero C. Maximum D. Variable
10	For a n-p-n transistor, the conventional current equation can be written as	A. I _E + I _C = I _B B. I _C - I _B = I _E = I _E C. I _C + I _B = I _E = I _E + I _E = I _E + I _E = I _C + I _E = I _C
11	The emitter-base junction of a transistor is forward-biased and collector-base junction is reverse-biased. If the base current is increased, its	A. I _c will decrease B. V _{CE} will increase C. I _C will increase D. V _{CC} will increase
12	If 250V is the RMS value of alternative voltage, then its peak value V_{O} will be:	A. 353.5V B. 250V C. 175V D. zero E. 400V
		A. photo diode

13	Which of the following diode is used to derive the current in external circuit when light is incident in the circuit	B. light emitting diode C. photo voltaic cell D. none of these
14	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
15	Due to the high value of the input resistance, practically, the value of the current which flows between the input terminals is	A. zero B. small C. large D. very large
16	Transmitting antenna emits	A. Magnetic waves B. Electric waves C. Electromagnetic waves D. Sound waves
17	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)
18	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
19	At resonance, the impedance of RLC series circuit is	A. Maximum B. Zero C. Minimum D. Determinate
20	The value of the input resistance of OP-AMP is of the order of	A. few ohms B. few hundred ohms C. several kilo ohms D. several maga ohms