

## ECAT Pre General Science Online Test

Sr	Questions	Answers Choice
SI	QUESTIONS	
1	Computer chips are made from	A. Conductors B. Semiconductors C. Insulators D. Both A and B
2	The branch of physics which concerned with the ultimate particles of which the universe is composed is known as	<ul><li>A. SolidState physics</li><li>B. Particle Physics</li><li>C. Nuclear Physics</li><li>D. Atomic Physics</li></ul>
3	The instrument used to gather information form the far side of the universe is	A. Compound microscope     B. Radio telescope     C. Astronomical Telescope     D. Simple microscope
4	At the present time, the main frontiers of fundamental science are	A. 2 B. 3 C. 4 D. 5
5	A choke coil is used as a resistance in	A. d.c. circuit B. a.c. circuit C. d.c. potentiometer circuit D. wheatstone bridge
6	The A.M. transmission frequency range from	A. 500-1000 KHz B. 540-1600 KHz C. 300-490 KHz D. 900-2040 KHz
7	Which of the following waves are more energetic	A. radio waves B. infrared waves C. ultraviolet D. <span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-size: small;">γ-rays</span>
8	The electric field, magnetic field and the direction of their propagation are mutually	A. perpendicular B. parallel C. none of these
9	A piece of wire along which charges are made to accelerate is known as	A. transmitting antenna B. receiving antenna C. modulator D. nor of these
10	In a three phase a.c generator if the first coil has a phase 0, then the other two coils will have phases	A. 90 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° - 120</span> <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> B. 20 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° and 140</span> <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° and 140</span> <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° </span> C. 120 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° and 240</span> <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° </span> D. 120 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">° </span>
		size: small;">° and 140 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span>

12	For a parallel resonant circuit at resonance, current from supply is	A. minimum B. maximum C. zero D. none of these
13	The L-C parallel circuit the capacitor draws a	A. leading current B. lagging current C. main current D. none of these
14	The circuit in which current and voltage are in phase, the power factor is	A. zero B. 1 C. negative D. 0.83
15	The power dissipation in a pure inductive or capacitance circuit is	A. maximum B. positive C. zero D. none
16	The ratio of the r.m.s value of the applied voltage to the r.m.s value of resulting a.c. is	A. Impedance B. Inductance C. Reactance D. Resistance
17	Such an inductor coil which does not consume energy and is often employed for controlling a.c. without consumption of energy is called	A. Choke B. impedance C. Semi-conductor D. None
18	Units of impedance are	A. Henry B. Ohms C. moh D. Watt
19	The combined effect of resistance and reactance in a.c. circuit is called	A. conductance B. resistance C. impedance D. choke
20	The reactance of a cell changes directly with	A. frequency of a.c B. the inductance C. both a and b D. none of these
21	Current varies with voltage	A. Inversely B. as square root C. Directly D. None of these
22	The basic circuit element in a d.c. circuit is a/an	A. Inductor B. Resistor C. Capacitor D. Battery
23	The average value of current and voltage over a cycle is	A. Positive B. Negative C. Zero D. May be positive or negative
24	The phase at the positive peak is	A. <span style='color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);'>    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(24, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 248);"&gt;    Sepan style="color: rgb(255, 255, 248);"&gt;    Sepan style</span>
25	The r.m.s value of a.c. current is always	A. positive B. negative C. zero D. all of these

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26	The sum of positive and negative peak values are usually written as	A. P-P value B. negative C. zero D. may be positive or negative
27	The highest value reached by voltage or current in one cycle is called	A. root means square value B. peak value C. peak to peak value D. instantaneous value
28	The angle which specifies the instantaneous value of the alternating voltage or current is called	A. phase B. critical angle C. angle of incidence D. all of these
29	The root mean square voltage for alternating current is	D. All of these
30	The peak value of alternating voltage is given by	