

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	We cannot utilize the heat contents of oceans and atmosphere because	A. there is no reservoir at the same temperature B. there is no reservoir at the temperature lower than any one of two C. there is no reservoir at the temperature higher than any one of two D. none of them
2	Graph of Black body radiation is example of	A. Band spectra B. Continuo's spectra C. Line spectra D. All
3	The unit of resistivity is	A. ohm B. ohm-m ² C. ohm-meter D. ohm-m ⁻¹
4	The arrangement or molecules or atoms in a crystalline solid can be studied by using:	A. Chemical methods B. Neutrons C. X-ray techniques D. Copper atoms E. Both (A) and (B)
5	The value of current at resonance in series LCR circuit is affected by the value	A. R only B. C only C. L only D. R, C and L
6	Marie curie and Pierre curie discovered:	A. Uranium B. Polonium C. Radium D. Both (A) and (C) E. Plutonium
7	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
8	The photon of radio-waves has energy of about	A. 1 Me V B. 1 Ke v C. 10^{-10} e v D. 10^{10} e v
9	Current varies with voltage	A. Inversely B. as square root C. Directly D. None of these
10	For the working of a heat engine, there must be	A. a source of heat at high temperature B. a sink at low temperature C. both of them D. none of them
11	With the help of 50 K v electron microscope, a resolution of	A. 0.5 to 1 m to possible B. 1 m to 10 m is possible C. 0.5 to 1 nm is possible D. 1 to 10 nm is possible
12	The quantity having dimension of ML^2T^{02} will earth is:	A. 80 sec B. 500 sec C. 1.802×10^4 sec D. Aerophysics
13	The magnetic field inside a solenoid can be increased by:	A. Increasing n B. Decreasing I C. Increasing I D. By using iron core within solenoid E. All correct except (B)
14	Scalar product is also called:	A. Cross product B. Dot product C. Product scalar D. Product vector

15 The unit of spring constant is

A. J-sec
 B. Metre
 C. Nm^{-1}
 D. None of these

16 Conversion of chemical energy to electrical energy can be achieved by:

A. <p class="MsoNormal" style="text-align:justify">Primary cell<o:p></o:p></p>
 B. <p class="MsoNormal" style="text-align:justify">Secondary cell<o:p></o:p></p>
 C. <p class="MsoNormal" style="text-align:justify">Both (A) and (B)
C. <o:p></o:p></p>
 D. <p class="MsoNormal" style="text-align:justify">Photovoltaic cell<o:p></o:p></p>
 E. <p class="MsoNormal" style="text-align:justify">Solar cell<o:p></o:p></p>

17 Charge on proton is

A. 1.59×10^{-9}
 B. 1.59×10^{-7}
 C. -1.59×10^{-19}
D. 1.59×10^{-19}

18 Which of the following pairs does not have identical dimensions?

A. Torque and energy
 B. Energy and work
 C. Momentum and impulse
D. Mass and moment of inertia

19 A gas is compressed adiabatically till its temperature is double. The ratio of its final volume to initial volume will be

A. $1/2$
B. More than $1/2$
 C. Less than $1/2$
 D. Between 1 and 2

20 INTELSAT operates at frequencies 4, 6, 11, 14 having unit of

A. KHz
 B. MHz
C. GHz
 D. BHz