

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The information from far side of the universe are gathered by:	A. Radio telescope B. Microscope C. Telescope D. Spectro scope
2	The value of the Stephen's constant for black body radiations is given by	A. $5.6 \times 10^{8} \text{ Wm}^{-2} \text{ K}^{-4}$ B. $5.67 \times 10^{-8} \text{ Wm}^{-2} \text{ K}^{-4}$ C. $2.9 \times 10^{-3} \text{ mK}$ D. $2.9 \times 10^{3} \text{ mK}$
3	The energy required to charge a capacitor of $5 \mu\text{F}$ by connecting D.C. source of 20 KV is	A. 10 KJ B. 5 KJ C. 2 KJ D. 1 KJ
4	The amount of coal used since 1945 up till now as compared to that used in the whole of history before that is	A. Much more B. Very small C. No amount at all D. None of these
5	If we connect a A.C. volt meter to read A.C. voltage, It would read its:	A. RMS value B. Instantaneous value C. Valued average over a cycle D. Zero E. Both (B) and (C)
6	Electric field lines emerge from the charges in	A. One dimension B. Two dimensions C. Three dimensions D. Four dimensions E. None of these
7	When a source of light is at very large distance, the shape of wavefront is:	A. Spherical B. Cylindrical C. Plane D. None of these
8	On the exhaust stroke, the outlet valve opens. The residual gases are expelled and piston moves	A. outwards B. inwards C. in either way D. none of these
9	An Astronaut in space comes to know of an explosion on nearby planet. The astronaut came to know about this explosion because.	A. The astronaut saw, heard and felt the explosion B. The astronaut only saw the explosion C. The astronaut only heard the explosion D. The astronaut both saw and heard the explosion
10	The induced current in a conductor depends upon	A. Resistance of the loop B. Speed with which the conductor moves C. Any of these D. Both A and B E. None of these
11	The resistance of an incandescent lamp is	A. Smaller when switched on B. Greater when switched off C. The same whether it is switch off or switch on D. Greater when switched on
12	A square loop of wire is moving through a uniform magnetic field. The normal to the loop is oriented parallel to the magnetic field. The emf induced in the loop is:	A. Zero B. Of smaller magnitude C. Of larger magnitude D. Sometimes B, sometimes C E. Neither of these
13	Electron volt is the unit of.	A. Potential difference B. Energy C. Resistance

D. Capacitance

14	The electrons occupying the conduction band are known as	<p>A. conduction electrons B. free electrons C. both of them D. none of them</p>
15	Magnetic effect of current is used:	<p>A. In electric motor</p> <p>B. To detect current</p> <p>C. To measure current</p> <p>D. All of these</p> <p>E. None of these</p>
16	Which one of the following is correct?	<p>A. $V_{rms} = 1.414$</p> <p>B. $I_{rms} = 1.414$</p> <p>C. $V_0 = 10.70 V_{rms}$</p> <p>D. Both a and b</p>
17	The branch of physics which deals with the properties of fundamental particles is called:	<p>A. High energy physics B. Molecular physics C. Astrophysics D. Space physics</p>
18	The existence of positron was predicted by Dirac in	<p>A. 1920 B. 1925 C. 1930 D. 1928</p>
19	A Carnot cycle consists of	<p>A. One step B. two step C. three steps D. four steps</p>
20	The SI unit of strain is	<p>A. N B. Dynes C. Pascal D. Dimensionless</p>