

## Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	One radian is equal to:	A. 30.3° B. 45.3° C. 50.3° D. 57.3°
2	Centripetal acceleration is also called _____ acceleration:	A. Tangential B. Radial C. Angular D. None of them
3	Two sources are said to be coherent if they have	A. Same amplitude B. Same wavelength C. Definite phase relation with each other D. None of them
4	In a soft iron, domains are	A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random position C. do no oriented along external field and also do not returns to originally random position D. none of them
5	A typical four stroke petrol engine undergoes how many successive processes in each cycle	A. one B. two C. three D. four
6	When the magnitude of two component vectors are equal to that of their resultant, then the angle between the components is:	A. 60° B. 90° C. 120° D. 150°
7	A monkey sits on the pan of spring scale kept in an elevator. The reading of the spring scale will be maximum when	A. Elevator is stationary B. Elevator cable breaks and it falls freely towards earth C. Elevator accelerates downwards D. Elevator accelerates upward

8	Which of the following is most suitable as the core of transformer	A. Soft iron B. Alinco C. Steel D. None of these
9	Max plank founded a mathematical model resulting in an equation that describes the shape of observed black body radiation curves exactly, in	A. 1890 B. 1895 C. 1900 D. 1905
10	The information from far side of the universe are gathered by	A. Radio telescope B. Microscope C. Telescope D. Spectro scpe
11	Referring to the above figure, the binding energy per nucleon increases upto mass number equal to:	A. 50 B. 100 C. 150 D. 200 E. 250
12	Internal energy is the sum of all the forms of	A. K.E B. P.E C. both of them D. none of them
13	Ohm's law states that	A. The current through a resistor is directly proportional to the applied voltage B. The voltage across a resistor is directly proportional to the current passing through it C. Resistance is the constant of proportionality between the voltage and current D. all of these
14	If a given spring of spring constant k is cut into two identical segments, the spring constant of each segment is:	A. k/2 B. 2 k C. 4 k D. None of these
15	CRO deflects the beam of	A. proton B. a-particle C. electron D. neutron
16	What temperature is the same on Celsius scale as well as on Fahrenheit scale?	A. 32 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> B. -32 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> C. -40 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> D. -212 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span>
17	For inducing emf in a coil the basic requirement is that:	A. Flux should link the coil B. Change in flux should link the coil C. Coil should form a closed loop D. Both B and C are true
18	The quantity having dimension of $ML^2T^{-02}$ will earth is:	A. 80 sec B. 500 sec C. $1.802 \times 10^4$ sec D. Aerophysics
19	Where the streamlines are very close to each other, the pressure will be	A. low B. zero C. high D. all of them
20	The dot product of electric field intensity E and vector area A is called	A. Electric potential B. Electric flux C. Electric field D. Magnetic field