

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

Sr	Questions	Answers Choice
1	If both the inputs given to a gate are 1 such that the output is 0, then it is:	A. AND gate B. NOR gate C. OR gate D. NOT gate E. Both (A) and (C)
2	The circuit which is used to smooth the output voltage of the full-wave rectification is known as	A. transformer B. rectifier C. filter D. none of these
3	A certain force gives an acceleration of $2 \text{ m/sec}^2$ to a body mass 5 kg. The same force would give a 20 kg object an acceleration of:	A. $0.5 \text{ m/sec}^2$ B. $5 \text{ m/sec}^2$ C. $1.5 \text{ m/sec}^2$ D. $9.8 \text{ m/sec}^2$
4	Acceleration in a body is always produced in the direction of:	A. Velocity B. Weight C. Force D. Both B and C
5	If $F=0.04 \text{ N}$ and $X=4 \text{ cm}$ then $K=$	A. $1 \text{ Nm}^{-1}$ B. $2 \text{ Nm}^{-1}$ C. $3 \text{ Nm}^{-1}$ D. $4 \text{ Nm}^{-1}$
6	A labourer carrying a distance a load on his head moves from rest on a horizontal road to another point where he comes to rest. He has done:	A. Minimum work B. Maximum work C. Zero work D. Negative work
7	If the stress increased beyond the elastic limit of the material. the deformation produced in the material will be	A. permanent B. temporary C. either of them D. none of them
8	A body moves a distance of 10 m along a straight line under the action of a force of 5 N. If the work done is 25 J, the angle which the force makes with the direction of motion of a body is:	A. $0^\circ$ B. $30^\circ$ C. $60^\circ$ D. $90^\circ$
		A. absolute zero B. $0^\circ$

9	There are some whose resistivity becomes zero below a certain temperature, called	84); font-family: arial, sans-serif; font-size: small;">>°C</span> C. critical temperature D. lower fixed point
10	When the pn-junction is forward biased. the current flows through it is of the order of	A. milli-amperes B. amperes C. nano-amperes D. micro-amperes
11	The nature of radiations emitted by a hot body depends upon its:	A. Material B. Temperature C. colour D. Volume E. Length
12	Conventionally, all the distance p, q, f are measured from _____ of the lens:	A. Focus B. Optical center C. Edges D. None of these
13	In the reverse process, the working substance passes through the same stages as in the direct process and	A. thermal effects at each stage are exactly reversed B. mechanical effects at each stage are exactly reversed C. thermal and mechanical effects at each stage remain the same D. thermal and mechanical effects at each stage are exactly reversed
14	The transition from solid to liquid is actually from:	A. Order to disorder B. Disorder to order C. Order to order D. Disorder to disorder E. None of these
15	A typical rocket consumes about	A. 100 kg s <sup>-1</sup> of fuel B. 1000 kg s <sup>-1</sup> of fuel C. 10000 kg s <sup>-1</sup> of fuel D. 100000 kg s <sup>-1</sup> of fuel
16	To see the minor details of the object by microscope, it should have:	A. High magnifying power B. High resolving power C. An objective of larger focal length D. None of these
17	When the body is moves against the force of friction on a horizontal plane, the work done by the body is:	A. Positive B. Negative C. Zero D. None of these
18	With reference of figure P-1 which of the following statements relating the average velocity for the complete path and the instantaneous velocity at point Velocity at point C is true.	A. The average velocity and the instantaneous velocity of C are equal B. The relation depends upon the mass of the toy car C. The average velocity is greater than the instantaneous velocity at C equal D. The instantaneous velocity at C is greater than the average velocity.
19	Which one the following gives three regions of electromagnetic spectrum in order of increasing wavelength?	A. Gamma rays, micro waves, visible light B. Radio waves, ultraviolet waves, X-rays C. Ultraviolet rays, infrared rays, micro waves D. Visible light, gamma rays, radio waves
20	Practically the quantity v/c is always:	A. less than one B. Equal to one C. Greater then one D. all of these E. None of these